



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 109242

TO: William C Vaughn  
Location:  
Art Unit : 2143  
Wednesday, November 26, 2003

Case Serial Number: 09/237099

From: Geoffrey St. Leger  
Location: EIC 2100  
PK2-4B30  
Phone: 308-7800

geoffrey.stleger@uspto.gov

### Search Notes

Dear Examiner Vaughn,

Attached please find the results of your Fast & Focused search request for application 09/237099. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger  
4B30/308-7800

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# STIC Search Results Feedback Form

**EIC 2100**

Questions about the scope or the results of the search? Contact **the EIC searcher or contact:**

**Anne Hendrickson, EIC 2100 Team Leader**  
**308-7831, CPK2-4B40**

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

**Comments:**

**Drop off or send completed forms to STIC/EIC2100 CPK2-4B40**





# STIC EIC 2100 Search Request Form

Today's Date:

11/25/03

What date would you like to use to limit the search?

Priority Date: 11/30/94 Other:

Name W. Vaughn

AU 2143 Examiner # 74926

Room # P1C2-5A52 Phone 306-9129

Serial # 09/237,099

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other \_\_\_\_\_

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Digital Streaming  
manipulation, rendering streaming data (digital)  
on-the-fly.

STIC Searcher Geo. Frey ST. Leger

Phone 308-7800

Date picked up 11/26/03

Date Completed 11/26/03



File 8: Ei Compendex(R) 1970-2003/Nov W3  
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 File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 34: SciSearch(R) Cited Ref Sci 1990-2003/Nov W4  
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     (c) 2003 FIZ TECHNIK  
 File 438: Library Lit. & Info. Science 1984-2003/Oct  
     (c) 2003 The HW Wilson Co  
 File 248: PIRA 1975-2003/Nov W4  
     (c) 2003 Pira International

Set	Items	Description
S1	113883	(RENDER? OR DISPLAY? OR LISTEN??? OR HEAR??? OR VIEW??? OR WATCH??? OR SEE???) (5N) (STREAM??? OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S2	20616	(DECOD??? OR DECOMPRESS?) (5N) (STREAM??? OR DATA OR INFORMATION OR CONTENT OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S3	118	S1(5N) (ON(1W) FLY OR ADAPTIV? OR AS(5W) (RECEIVED OR RECEIVES OR RECEIVING))
S4	971	S1(5N) (REALTIME OR REAL()TIME)
S5	90	RD S3 (unique items)
S6	29	S5 NOT PY=1995:2003
S7	35	S2 AND S4
S8	22	RD (unique items)
S9	6	S8 NOT (PY=1995:2003 OR S6)

6/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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04168142 E.I. No: EIP95052705415

**Title: Full-color real-time video broadcasting over ATM LAN**

Author: Maa, Chia-Yiu

Corporate Source: Tektronix Lab, Beaverton, OR, USA

Conference Title: Proceedings of the 1994 International Conference on Parallel and Distributed Systems

Conference Location: Hsinchu, China Conference Date: 19941219-19941221

Sponsor: National Chiao Tung University; IEEE Computer Society

E.I. Conference No.: 42980

Source: Proceedings of the Internatoinal Conference on Parallel and Distributed Systems - ICPADS 1994. IEEE, Los Alamitos, CA, USA. p 196-201

Publication Year: 1994

CODEN: 002042

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9507W3

Abstract: In this paper our experience broadcasting full-color, full-size, real-time video over an ATM LAN is reported. The broadcasting system is **adaptive** in that each receiver can **view video** at its highest affordable frame rate. Effort has been made to guarantee continuous audio and best-effort audio and video synchronization. The key factors of the major components of the system which limit the performance of real-time ATM video applications are then discussed. Suggestions are given to address these limitations. (Author abstract) 9 Refs.

Descriptors: \*Video signal processing; Local area networks; Asynchronous transfer mode; Synchronization; Real time systems; Performance; Telecommunication traffic; Image compression; Standards; Computer software

Identifiers: Full color real time video broadcasting; Asynchronous transfer mode local area networks

Classification Codes:

716.4 (Television Systems & Equipment); 722.3 (Data Communication, Equipment & Techniques); 716.1 (Information & Communication Theory); 722.4 (Digital Computers & Systems); 723.2 (Data Processing); 902.2 (Codes & Standards)

716 (Radar, Radio & TV Electronic Equipment); 722 (Computer Hardware); 723 (Computer Software); 902 (Engineering Graphics & Standards)

71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

6/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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03843258 E.I. No: EIP94041268838

**Title: Vision-based path following by using a neural network guidance system**

Author: Luebbers, P.G.; Pandya, A.S.

Corporate Source: Florida Atlantic Univ, Boca Raton, FL, USA

Source: Journal of Robotic Systems v 11 n 1 1994. p 57-66

Publication Year: 1994

CODEN: JRSYDB ISSN: 0741-2223

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9406W1

Abstract: This article describes a neural network controller for guidance of a robot arm, used to model some aspects of autonomous vehicle technology. The controller uses **video** images with **adaptive view** -angles for the sensory input, and the system was configured to simulate an autonomous vehicle guidance system on a flat terrain using a high-contrast guiding path. To demonstrate the feasibility of using neural networks in this type of application, an Intellex 405 robot fitted with a video camera and associated vision system was used. Phase I of the project

consisted of a single-speed implementation and limited network training. Phase II featured a multi-speed implementation using adaptively varied view-angles based on robot arm velocity. It was shown that the neural network controller was able to control the robot arm along a path composed of path segments unlike those with which it was trained. In addition it was shown that a multi-speed implementation with adaptive view angles improved system performance. (Author abstract) 10 Refs.

Descriptors: \*Computer vision; Neural networks; Control equipment; Electronic guidance systems; Robotic arms; Sensors; Video cameras; Image processing; Position control; Sensor data fusion

Identifiers: Vision based path; Neural network controller; Video images; Vehicle guidance system; Flat terrain; High contrast guiding path; Intellex 405 robot; Vision system; Adaptive view angle

Classification Codes:

723.2 (Data Processing); 723.4 (Artificial Intelligence); 732.1 (Control Equipment); 731.1 (Control Systems); 731.5 (Robotics); 741.1 (Light/Optics)

723 (Computer Software); 732 (Control Devices); 731 (Automatic Control Principles); 741 (Optics & Optical Devices)

72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING); 74 (OPTICAL TECHNOLOGY)

**6/5/4 (Item 4 from file: 8)**

DIALOG(R) File 8: Ei Compendex(R)

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03413087 E.I. Monthly No: EIM9204-016118

**Title: Visual Communications and Image Processing '91: Image Processing.**

Author: Tzou, Kou-Hu (Ed. ); Koga, Toshio (Ed. )

Corporate Source: Bell Communications Research, Clarksburg, MD, USA

Conference Title: Visual Communications and Image Processing '91: Image Processing Part 2 (of 2)

Conference Location: Boston, MA, USA Conference Date: 19911111

Sponsor: SPIE

E.I. Conference No.: 15907

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1606 pt 2 1991. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 588-1094

Publication Year: 1991

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0743-7

Language: English

Document Type: CP; (Conference Proceedings) Treatment: T; (Theoretical); A; (Applications); X; (Experimental)

Journal Announcement: 9204

Abstract: Proceedings incorporates 45 papers that are subdivided into seven sessions dealing with: image segmentation and classification; digital image processing in medicine; image sequence restoration and filtering; digital image processing algorithms; applications of digital image processing; and neural networks in image processing. Topics discussed include: object identification, shape recognition, associative neural networks, wavelet-type functions, color images, space-filling molecular models, image generation, teleconferencing systems, video browsing, chip resistors, quality inspection, picture processing and painting, computer vision; image retrieval, digital halftoning, ASIC architecture, video signal processing, Gabor decomposition, VLSI realization, Gaussian operators, Fourier and Gabor transforms, sine and cosine transforms, programmable processors, multidimensional signal processing, IDS filters, affine groups, Rader's algorithm, autocorrelation, signal reconstruction, heart movies, motion-compensated filtering, video sequences, median filter, adaptive methods, cross-entropy algorithm, Prosthetic sockets, cell shape analysis, CT images, venous beading, texture recognition, Chinese-English documents, and block segmentation.

Descriptors: \*IMAGE PROCESSING; PATTERN RECOGNITION; NEURAL NETWORKS; SIGNAL PROCESSING; OPTICAL FILTERS; COMPUTER PROGRAMMING--Algorithms

Identifiers: EIREV; IMAGE SEGMENTATION; IMAGE SEQUENCES; DIGITAL IMAGE PROCESSING; MOVING IMAGES; VISUAL RECOGNITION

Classification Codes:

723 (Computer Software); 741 (Optics & Optical Devices); 716 (Radar, Radio & TV Electronic Equipment); 461 (Biotechnology); 713 (Electronic Circuits); 714 (Electronic Components)  
72 (COMPUTERS & DATA PROCESSING); 74 (OPTICAL TECHNOLOGY); 71 (ELECTRONICS & COMMUNICATIONS); 46 (BIOENGINEERING)

6/5/5 (Item 5 from file: 8)  
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03384481 E.I. Monthly No: EIM9202-008876

**Title: Video-image-based neural network guidance system with adaptive view-angles for autonomous vehicles.**

Author: Luebbers, Paul G.; Pandya, Abhijit S.

Corporate Source: Florida Atlantic Univ., Boca Raton, FL, USA

Conference Title: Applications of Artificial Neural Networks II

Conference Location: Orlando, FL, USA Conference Date: 19910402

Sponsor: SPIE

E.I. Conference No.: 15524

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1469 pt 2. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 756-765

Publication Year: 1991

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0578-7

Language: English

Document Type: PA; (Conference Paper) Treatment: A; (Applications); X; (Experimental)

Journal Announcement: 9202

Abstract: This paper describes the guidance function of an autonomous vehicle based on a neural network controller using **video** images with **adaptive view** angles for sensory input. The guidance function for an autonomous vehicle provides the low-level control required for maintaining the autonomous vehicle on a prescribed trajectory. Neural networks possess unique properties such as the ability to perform sensor fusion, the ability to learn, and fault tolerant architectures, qualities which are desirable for autonomous vehicle applications. To demonstrate the feasibility of using neural networks in this type of an application, an Intellex 405 robot fitted with a video camera and vision system was used to model an autonomous vehicle with a limited range of motion. In addition to fixed-angle video images, a set of images using adaptively varied view angles based on speed are used as the input to the neural network controller. It was shown that the neural network was able to control the autonomous vehicle model along a path composed of path segments unlike the exemplars with which it was trained. This system was designed to assess only the guidance system, and it was assumed that other functions employed in autonomous vehicle control systems (mission planning, navigation, and obstacle avoidance) are to be implemented separately and are providing a desired path to the guidance system. The desired path trajectory is presented to the robot in the form of a two-dimensional path, with centerline, that is to be followed. A video camera and associated vision system provides video image data as control feedback to the guidance system. The neural network controller uses Gaussian curves for the output vector to facilitate interpolation and generalization of the output space.  
3 Refs.

Descriptors: \*VEHICLES--\*Navigation Systems; NEURAL NETWORKS; ROBOTICS--Vision Systems; COMPUTER VISION

Identifiers: NEURAL NETWORK CONTROLLER; AUTONOMOUS VEHICLE; VISION GUIDANCE

Classification Codes:

432 (Highway Transportation); 723 (Computer Software); 731 (Automatic Control Principles)

43 (TRANSPORTATION); 72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING)

6/5/6 (Item 6 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)

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03320675 E.I. Monthly No: EIM9110-052119

**Title: Survey and evaluation of multiple access protocols in multimedia satellite networks.**

Author: Nguyen, Thieu; Suda, Tatsuya

Corporate Source: Dept of Inf & Comput Sci, Univ of California, Irvine, CA, USA

Conference Title: IEEE Proceedings of Southeastcon '90 - Technologies Today and Tomorrow

Conference Location: New Orleans, LA, USA Conference Date: 19900401

Sponsor: IEEE Region 3; South Central Bell; Northern Telecom Inc; AT&T Network Systems; Louisiana Power & Light Co; et al

E.I. Conference No.: 14990

Source: Conference Proceedings - IEEE SOUTHEASTCON v 2. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90CH2883-7). p 408-413

Publication Year: 1990

CODEN: CPISDM ISSN: 0734-7502

Language: English

Document Type: PA; (Conference Paper) Treatment: A; (Applications)

Journal Announcement: 9110

Abstract: The characteristics of multiple-access protocols suitable for multimedia satellite environments are identified. The four major classes of multiple-access protocols in satellite communications are discussed. A short description of a typical protocol in each class is given. Major characteristics of multimedia traffic are listed, namely, data, voice, and image. The criteria used to evaluate protocol performance, such as channel utilization, stability, complexity, fairness, and overhead, are discussed. No existing protocol generally satisfies the delay performance of all traffic types in **multimedia** environments, although **adaptive** protocols **seem** to show the most promise. **Adaptive** protocols can dynamically adjust according to the load fluctuation as well as to different mixtures of traffic information. A protocol that is suitable for multimedia transmissions and combines some advantages of different protocols is suggested. 14 Refs.

Descriptors: \*COMPUTER NETWORKS--\*Protocols; TELECOMMUNICATION LINKS, SATELLITE; DIGITAL COMMUNICATION SYSTEMS--Voice/Data Integrated Services

Identifiers: MULTIPLE ACCESS PROTOCOLS; MULTIMEDIA SATELLITE NETWORKS; SATELLITE COMMUNICATIONS; INTEGRATED NETWORKS

Classification Codes:

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software)

71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING)

6/5/7 (Item 7 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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02997694 E.I. Monthly No: EI9012142754

**Title: Experimental results with a real-time adaptive ultrasonic imaging system for viewing through distorting media .**

Author: Trahey, Gregg; Zhao, Danhua; Miglin, John A.; Smith, Stephen W.

Corporate Source: Dept of Biomed Eng, Duke Univ, Durham, NC, USA

Source: IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control v 37 n 5 Sep 1990 p 418-427

Publication Year: 1990

CODEN: ITUCER ISSN: 0885-3010

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical); X; (Experimental)

Journal Announcement: 9012

Abstract: An online adaptive phased-array ultrasonic imaging system capable of markedly improving the detectability of targets **viewed** through inhomogeneous **media** is described. An online **adaptive** phase correction technique implemented on a research phased-array scanner is described. The theoretical basis for this technique is presented by describing the relationship between the magnitude of phase aberrations and the regional brightness of speckle and pointlike targets. The system currently generates



a corrected image in approximately 0.1 s and utilizes no prior knowledge of the aberrating media or the target. The adaptive imaging algorithm uses regional target brightness as a quality factor. The results of in vitro tests with this system using electronic and physical aberrators for both diffuse and pointlike targets are presented. 19 Refs.

Descriptors: \*IMAGING TECHNIQUES--\*Ultrasonic Applications; CONTROL SYSTEMS, ADAPTIVE; COMPUTER PROGRAMMING--Algorithms; ACOUSTIC IMAGING  
Identifiers: PHASED-ARRAY ULTRASONIC IMAGING; ADAPTIVE ULTRASONIC IMAGING; IMAGING; PHASED-ARRAY SCANNER; IMAGING ALGORITHM; POINTLIKE TARGETS

Classification Codes:

753 (Sound Technology & Ultrasonics); 723 (Computer Software); 731 (Automatic Control Principles)

75 (ACOUSTICAL TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING)

6/5/8 (Item 8 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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02576270 E.I. Monthly No: EI8805042309

Title: CHI plus GI 1987 CONFERENCE PROCEEDINGS - SPECIAL ISSUE OF THE SIGCHI BULLETIN: HUMAN FACTORS IN COMPUTING SYSTEMS AND GRAPHICS INTERFACE.

Author: Anon

Corporate Source: Chinese SNAME, Ship Repair Technology Academic Committee, China

Source: Proceedings - Graphics Interface 1987, CHI \$plus\$ GI 1987 Conf Proc: Hum Factors in Comput Syst and Graphics Interface, Toronto, Ont, Can, Apr 5-9 1987. Publ by ACM Inc, New York, NY, USA, 1987 344p

Publication Year: 1987

ISSN: 0713-5424

Language: English

Document Type: CP; (Conference Proceedings) Treatment: A; (Applications); G; (General Review); T; (Theoretical)

Journal Announcement: 8805

Abstract: This conference proceedings contains 14 papers discussing different aspects of ship repair operations conducted in the Peoples Republic of China. Dock facility improvements, quality control of propeller during repair, and non-pollution lubricating techniques for marine stern tube bearing are discussed. An analysis is given of reliability parameters of two marine propulsion plants (steam and diesel), by using actual maintenance statistical data. A description is given of the renewal of the whale tank section of a tanker. The application of arc welding techniques for repairing various copper base alloy propellers is also discussed. Technical and professional papers from this conference are indexed and abstracted with the conference code no. 10683 in the Ei Engineering Meetings (TM) database produced by Engineering Information, Inc.

Descriptors: k, NY, USA, 1987 344; COMPUTER SYSTEMS, DIGITAL--Human Factors; COMPUTER GRAPHICS; HUMAN ENGINEERING; SYSTEMS SCIENCE AND CYBERNETICS; HUMAN REHABILITATION ENGINEERING

Identifiers: GRAPHICS INTERFACES; PREDICTIVE COGNITIVE MODELING; ADAPTIVE INTERFACES; ANIMATION ; DISPLAYS AND OUTPUTS

Classification Codes:

723 (Computer Software); 722 (Computer Hardware); 461 (Biotechnology)

72 (COMPUTERS & DATA PROCESSING); 46 (BIOENGINEERING)

6/5/9 (Item 9 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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02559910 E.I. Monthly No: EIM8804-023261

Title: CHI & GI 1987 CONFERENCE PROCEEDINGS: HUMAN FACTORS IN COMPUTING SYSTEMS AND GRAPHICS INTERFACE.

Author: Carroll, John M. (Ed. ); Tanner, Peter P. (Ed. )

Conference Title: CHI & GI 1987 Conference Proceedings: Human Factors in Computing Systems and Graphics Interface.

Conference Location: Toronto, Ont, Can Conference Date: 19870405

Sponsor: ACM, New York, NY, USA  
E.I. Conference No.: 11007  
Source: Proceedings - Graphics Interface 1987. Publ by ACM Inc, New York, NY, USA 344p  
Publication Year: 1987  
CODEN: PGINEK ISSN: 0713-5424 ISBN: 0-89791-213-6  
Language: English  
Document Type: CP; (Conference Proceedings)  
Journal Announcement: 8804

Abstract: This conference proceedings contains 53 papers, which concern human factors in computing systems and graphics interfaces. Displays and outputs are discussed. Predictive cognitive modeling is presented, as are user interface metaphors. Other subjects addressed include: user interfaces for the physically disabled, adaptive interfaces, graphics algorithms, animation, and user interface management systems.

Descriptors: \*COMPUTER INTERFACES; COMPUTER SYSTEMS, DIGITAL--Human Factors; COMPUTER GRAPHICS; HUMAN ENGINEERING; SYSTEMS SCIENCE AND CYBERNETICS; HUMAN REHABILITATION ENGINEERING

Identifiers: GRAPHICS INTERFACES; PREDICTIVE COGNITIVE MODELING; **ADAPTIVE INTERFACES; ANIMATION ; DISPLAYS AND OUTPUTS ; EIREV**

Classification Codes:

723 (Computer Software); 722 (Computer Hardware); 461 (Biotechnology)  
72 (COMPUTERS & DATA PROCESSING); 46 (BIOENGINEERING)

6/5/11 (Item 11 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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02234129 E.I. Monthly No: EIM8703-016509  
**Title: ADAPTIVE ARRAY WITH BINAURAL PROCESSOR.**  
Author: Campbell, Richard L.  
Corporate Source: Michigan Technological Univ, Houghton, MI, USA  
Conference Title: AP-S International Symposium 1986: 1986 International Symposium Digest - Antennas and Propagation.  
Conference Location: Philadelphia, PA, USA Conference Date: 19860608  
Sponsor: IEEE Antennas & Propagation Soc, New York, NY, USA  
E.I. Conference No.: 09096  
Source: AP-S International Symposium (Digest) (IEEE Antennas and Propagation Society) 1986 Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 86CH2325-9), Piscataway, NJ, USA p 953-956  
Publication Year: 1986  
CODEN: IAPSBG ISSN: 0272-4693  
Language: English  
Document Type: PA; (Conference Paper)  
Journal Announcement: 8703

Abstract: Human binaural hearing is used as an adaptive array processor by linearly translating signal voltages from two antennas to audio, and applying the two audio frequency signals to the right and left transducers of a stereo headset. A two-element adaptive array for single-sideband (SSB) and continuous-wave (CW) signals is described. The observer hears the signals in a perceived space, with signals arriving from different directions localized at different points in the perceived space. The observer may concentrate on a signal localized at one point while ignoring signals localized at other points. Experimental observations are reported for HF signals in noise and interference, VHF signals in white noise and multipath, and UHF CW signals in an anechoic chamber. 1 ref.

Descriptors: \*AUDIO SYSTEMS; ANTENNAS--Arrays; SIGNAL PROCESSING; SIGNAL INTERFERENCE

Identifiers: BINAURAL **ADAPTIVE** ARRAYS; **AUDIO** CODING; HUMAN BINAURAL **HEARING ; SSB SIGNALS; DIGEST OF PAPER**

Classification Codes:

752 (Sound Equipment & Systems); 716 (Radar, Radio & TV Electronic Equipment)  
75 (ACOUSTICAL TECHNOLOGY); 71 (ELECTRONICS & COMMUNICATIONS)

6/5/14 (Item 2 from file: 35)

01271608 ORDER NO: AADMM-68992

**AN ADAPTIVE DIGITAL DYNAMIC RANGE CONTROLLER**

Author: SCHNEIDER, A. TODD

Degree: M.A.SC.

Year: 1991

Corporate Source/Institution: UNIVERSITY OF WATERLOO (CANADA) (1141)

Source: VOLUME 31/01 of MASTERS ABSTRACTS.

PAGE 401. 153 PAGES

Descriptors: ENGINEERING, ELECTRONICS AND ELECTRICAL

Descriptor Codes: 0544

ISBN: 0-315-68992-7

High fidelity digital audio sources are capable of reproducing a much wider dynamic range than most conventional consumer media (e.g. AM/FM radio and audio cassettes). The research presented here addresses the problem of matching this wide dynamic range to that of a device (or channel) with lower dynamic range capabilities using a Dynamic Range Controller (DRC). Currently available digital signal processing hardware allows the implementation of entirely Digital DRC's (DDRC's) that interface directly to digital sources and eliminate unnecessary data (analog  $\rightarrow$  digital) conversions.

The DDRC design presented in this thesis uses an adaptive level measurement scheme and an adaptive recovery time to improve performance. The perceived distortion introduced by rapid gain reductions (attack) is lessened by allowing attacks only at the zero crossing preceding a transient. A single-channel version of the Adaptive DDRC has been implemented for real-time operation on a DSP56000 evaluation board.

Tests showed that the Adaptive DDRC has insignificant total harmonic distortion. Intermodulation distortion measurements compare favourably with a previous DDRC design (11) that was reported as having good subjective performance. The results of our listening tests show great promise for the **Adaptive DDRC. Listeners** rated the average **sound** quality of an **Adaptive DDRC** configuration higher than a conventional design (with peak level gain control). However, since other Adaptive DDRC configurations (i.e. different parameter sets) did not perform as well, further testing is required to optimize the Adaptive DDRC parameter set.

6/5/15 (Item 3 from file: 35)

802027 ORDER NO: AAD83-02548

**HYBRID OPTICAL-DIGITAL ENCODING FOR VIDEO BANDWIDTH REDUCTION**

Author: STIRBL, ROBERT CLARK

Degree: PH.D.

Year: 1982

Corporate Source/Institution: CITY UNIVERSITY OF NEW YORK (0046)

Source: VOLUME 43/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2991. 318 PAGES

Descriptors: ENGINEERING, ELECTRONICS AND ELECTRICAL

Descriptor Codes: 0544

A hybrid optical-digital encoder incorporating a new optical preprocessing method for reducing visible error instability noise in the reconstructed **video display** of **adaptive** delta modulation (ADM) encoded signals is presented. The method employs the edge contrast dependent phase gradients, produced by the localized transition surface reliefs of the input image absorption transparency. Phase gradients add a local angular carrier to the input illumination angle, causing the position of the Fourier transformed spatial spectra of the light from high contrast, instability producing transitions to be displaced from the axially centered and close lying transformed spectra. The close lying spectra of slowly varying and low contrast transitions do not cause highly visible disturbing error instabilities.

In the transform domain, directional and differential weighting of the composite transformed spatial spectra is implemented using an asymmetric linearly transmitting absorption spatial filter. The filter is produced photographically on Kodak 649F photographic emulsion by an analog exposure technique. The effect of the filtering on the retransformed output image distribution is essentially to superimpose a visualized image of the high contrast transition phase gradients on the retransformed real amplitude input image.

The resulting superposition modifies the slope of the original edge detail. Thus error instability usually seen at high contrast transitions in the video reconstruction of ADM encoded scenes sampled at low rates is reduced.

The method of optical preprocessing used modifies the input spatial spectrum distribution in a way not possible by either simple binary symmetric low pass filtering or image defocusing--optical methods used to reduce image resolution-bandwidth requirements.

The method is explored for three illumination image class cases: Temporally and spatially coherent illumination of monochrome still and moving scenes, temporally incoherent partially spatially coherent polychromatic illumination of monochrome still and moving scenes, and temporally incoherent partially spatially coherent polychromatic illumination of still and moving color scenes.

In each case optical preprocessing reduces the subjective image noise when encoder rates fall below 10 Mbit/sec. The increase in image stability in each case results in the compression of the bandwidth needed to produce a given quality of the transmitted scene.

6/5/28 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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05470596

Videophones on the cheap

UK - OLYMPIC COMMUNICATIONS DEVELOPS SWITCH FOR VIDEOPHONES  
Sunday Times (ST) 29 November 1992 ps3p17

Olympic Communications (UK) has developed an electronic switch which enables videophone signals to be routed through a conventional exchange in the same way as audio signals. The video signals can be sent to the user's desktop computers, while a camera at the sender's end will allow two-way **viewing**. The **video** signals are switched **as** they are **received**, which cuts the cost compared to digitising the signals.

COMPANY: OLYMPIC COMMUNICATIONS

PRODUCT: Teleconferencing (3661TC);  
EVENT: NEW PRODUCT EXTENSION (33);  
COUNTRY: United Kingdom (4UK); OECD Europe (415); European Economic Community Countries (419); NATO Countries (420); South East Asia Treaty Organisation (913);

6/5/29 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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00791782 E94074289005

**Empirical evaluation of user procedures in videotelephony**

(Empirische Bewertung von Benutzerverhalten bei der Bildtelephonie)

Anderson, DM; Bentley, K; Ferris, AJ; Marion, R; Rushton, P  
Man Machine Technol., Sandefjord, N; PTT Res., NL; Ferris Associates, GB;  
u.a.

Human Factors in Telecommunications, 14th Int. Symp., Proc., Darmstadt, D,  
May 11-14, 19931993

Document type: Conference paper Language: English

Record type: Abstract

ABSTRACT:

An empirical evaluation of a set of user control procedures for ISDN Videotelephony was carried out by a multi-national Project team supported by ETSI, as part of their mandate to prepare European standards in telecommunications. Teams in UK, Netherlands, Germany and Italy used a common experimental design and method to investigate user performance on various experimental or prototype ISDN videotelephones, implementing generic user control procedures, as defined by ETSI. Time and error data was collected as well as subjective opinions, and used to evaluate usability as defined by ISO. The data revealed some effects from implementation, but established that the procedures were capable of being learned. The results also allowed the comparison of different implementations of some specific features of procedures in videotelephony. These included default conditions for video and audio, the concept of visual reciprocity and a number of other service elements, such as video pause, self-view and receiving video calls in another mode (upgrade).

9/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

03912402 E.I. No: EIP94081360198

Title: **Real-time MPEG encoder using a programmable processor**

Author: Kim, D.; Young, J.; Milton, S.; Kim, H.J.; Kim, Y.

Corporate Source: Univ of Washington, Seattle, WA, USA

Source: IEEE Transactions on Consumer Electronics v 40 n 2 May 1994. p 161-170

Publication Year: 1994

CODEN: ITCEDA ISSN: 0098-3063

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); G; (General Review)

Journal Announcement: 9409W4

Abstract: This paper describes the design of a fully programmable multimedia system. The system, which utilizes a single multimedia video processor (MVP), is capable of performing real-time MPEG video and audio encoding at SIF resolution, 30 frames per second. Support is provided for a windows environment, including a scalable video window for viewing decoded video sequences or monitoring video compression in real time. The system is also well suited to perform image processing, 2-D and 3-D graphics, and many other video and audio processing and compression algorithms. (Author abstract) 9 Refs.

Descriptors: \*Video signal processing; Digital signal processing; Real time systems; Microprocessor chips; Image coding; Image compression; Audio systems; Computer graphics; Computer systems programming; Algorithms

Identifiers: Multimedia systems; Multimedia video processor; Moving Pictures Expert Group (MPEG) specification; Audio compression

Classification Codes:

752.3.1 (Sound Reproduction Equipment)

716.4 (Television Systems & Equipment); 723.2 (Data Processing); 721.3 (Computer Circuits); 752.3 (Sound Reproduction); 723.1 (Computer Programming)

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software); 721 (Computer Circuits & Logic Elements); 752 (Sound Equipment & Systems) 71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 75 (ACOUSTICAL TECHNOLOGY)

9/5/2 (Item 1 from file: 65)  
DIALOG(R)File 65:Inside Conferences  
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00571380 INSIDE CONFERENCE ITEM ID: CN005542376

Real - Time Decoding and Display of Structured Video

Bove, V. M.; Granger, B. D.; Watlington, J. A.

CONFERENCE: Multimedia computing and systems-International conference PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MULTIMEDIA COMPUTING AND SYSTEMS, 1994 P: 456-462

IEEE Computer Society Press, 1994

ISBN: 0818655305; 0818655313

LANGUAGE: English DOCUMENT TYPE: Conference Selected papers

CONFERENCE SPONSOR: IEEE Computer Society Task Force on Multimedia Computing

CONFERENCE LOCATION: Boston, MA

CONFERENCE DATE: May 1994 (199405) (199405)

BRITISH LIBRARY ITEM LOCATION: 6844.856500

NOTE:

IEEE Cat no 94TH0631-2

DESCRIPTORS: multimedia computing; IEEE

9/5/3 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

04279093 INSPEC Abstract Number: B9212-6210-051, C9212-7820-039

**Title: The Virtual Museum: interactive 3D navigation of a multimedia database**

Author(s): Miller, G.; Hoffert, E.; Chen, S.E.; Patterson, E.; Blackketter, D.; Rubin, S.; Applin, S.A.; Yim, D.; Hannan, J.

Author Affiliation: Apple Comput. Inc., Cupertino, CA, USA

Journal: Journal of Visualization and Computer Animation vol.3, no.3  
p.183-97

Publication Date: July-Sept. 1992 Country of Publication: UK

CODEN: JVCAEO ISSN: 1049-8907

U.S. Copyright Clearance Center Code: 1049-8907/92/030183-15\$12.50

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

**Abstract:** The Virtual Museum is an interactive, electronic museum where users can move from room to room, and select any exhibit in a room for more detailed examination. The exhibits in the museum are educational, encompassing topics such as medicine, plant growth, the environment, and space. To facilitate interaction with the museum, a new method for navigating through a prerendered 3D space, and interacting with objects in that space has been developed, called virtual navigation. Virtual navigation employs **real - time video decompression** for the **display** of, and interaction with, high-quality computer animation. In addition, a representation for 3D objects in animated sequences is used which permits pixel-accurate, frame-accurate object picking, so that a viewer can select any 3D object to trigger movement within the 3D space, to examine an exhibit in animated form, or to play a digital movie or soundtrack. The use of precomputed video permits 3D navigation in a realistic-looking space, without requiring special-purpose graphics hardware. (22 Refs)

Subfile: B C

**Descriptors:** computer animation; humanities data processing; multimedia systems; video equipment

**Identifiers:** interactive museum; educational exhibits; 3D objects representation; pixel accurate object picking; movement triggering; digital soundtrack; interactive 3D navigation; multimedia database; electronic museum; prerendered 3D space; virtual navigation; real-time **video decompression**; computer animation; frame-accurate object picking; digital movie; precomputed video; realistic-looking space

**Class Codes:** B6210 (Telecommunication applications); B6430J (Applications of television systems); C7820 (Humanities); C6160Z (Other DBMS); C7250 (Information storage and retrieval)

9/5/4 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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03319142 INSPEC Abstract Number: B89019205, C89013420

**Title: Real-time video simulation (RVS): a system for real-time video operations**

Author(s): Fortier, M.; Dubois, E.; Sabri, S.

Author Affiliation: INRS-Telecommun., Nuns' Island, Que., Canada

Conference Title: Electronic Imaging '88. International Electronic Imaging Exposition and Conference. Advance Printing of Paper Summaries  
p.593-8 vol.2

Publisher: Inst. Graphic Commun, Boston, MA, USA

Publication Date: 1988 Country of Publication: USA 2 vol. xxix+950 pp.

Conference Sponsor: Diagnostic Imaging Magazine; ESD: Electron. Syst. Design Magazine; EP & P 88 Magazine; Adv. Imaging Magazine

Conference Date: 28-31 March 1988 Conference Location: Anaheim, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

**Abstract:** For digital video signal processing, it is important to be able to simulate the effect produced by the algorithm and, at least, to **view** the results on a **video display**. A **real - time video** simulation (RVS) system is presented which offers a vehicle for research into video

signal processing. This system's real-time operation eliminates many drawbacks associated with software simulation with off-line computations. The system performs full NTSC digital encoding and **decoding** of the **video** signal and has associated programmability for its modules providing thorough testing for matrix, filter and modulation/demodulation parameters. The system can be further enhanced by insertion of specialized DSP modules operating in real-time. (5 Refs)

Subfile: B C

Descriptors: computerised picture processing; digital simulation; performance evaluation; real-time systems; video signals

Identifiers: RVS system; real-time video operations; digital video signal processing; video display; real-time video simulation; research; video signal processing; real-time operation; software simulation; off-line computations; full NTSC digital encoding; decoding; programmability; testing; matrix; filter; modulation/demodulation parameters; specialized DSP modules

Class Codes: B6430 (Television equipment, systems and applications); B6140C (Optical information processing); C5260B (Computer vision and picture processing); C5470 (Performance evaluation and testing)

9/5/5 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1195128 H.W. WILSON RECORD NUMBER: BAST94063777

**UltraSPARC unveiling reveals on-chip realtime multimedia**

Child, Jeff;

Computer Design v. 33 (Oct. '94) p. 22+

DOCUMENT TYPE: Feature Article ISSN: 0010-4566 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: Sun Microsystems' SPARC Technology Business has unveiled UltraSPARC, the next-generation superscalar RISC microprocessor. It offers industry-leading performance with SPECint92 values from 200 to 400 and SPECfp92 values from 250 to 500. The chip has on-chip **multimedia** support, including **realtime** MPEG-2 decompression, **video** effects, and texture-mapped triangle **rendering**.

DESCRIPTORS: SPARC microprocessors; Multimedia devices;

9/5/6 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1188102 H.W. WILSON RECORD NUMBER: BAST94056737

**UltraSparc design makes early debut**

Taninecz, George;

Electronics v. 67 (Sept. 26 '94) p. 8

DOCUMENT TYPE: Feature Article ISSN: 0883-4989 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: Sun Microsystem's Sparc Technology Business, Mountain View, California, launched the UltraSparc on September 19, 1994. This 64-bit RISC microprocessor design includes on-board processing power for 2 **realtime** MPEG-2 **decompressions**, desktop **video** conferencing, and texture-mapped triangle **rendering**.



File 275:Gale Group Computer DB(TM) 1983-2003/Nov 25  
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File 16:Gale Group PROMT(R) 1990-2003/Nov 25  
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File 674:Computer News Fulltext 1989-2003/Nov W2  
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File 696:DIALOG Telecom. Newsletters 1995-2003/Nov 25  
(c) 2003 The Dialog Corp.  
File 369:New Scientist 1994-2003/Nov W3  
(c) 2003 Reed Business Information Ltd.  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2003/Nov 26  
(c) 2003 Business Wire.  
File 613:PR Newswire 1999-2003/Nov 26  
(c) 2003 PR Newswire Association Inc  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	551230	(RENDER? OR DISPLAY? OR LISTEN??? OR HEAR??? OR VIEW??? OR WATCH??? OR SEE???) (5N) (STREAM??? OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S2	405	S1(5N) (ON(1W)FLY OR ADAPTIV? OR AS(5W) (RECEIVED OR RECEIVES OR RECEIVING))
S3	46	S2 NOT PY=1995:2003
<del>S4</del>	<del>34</del>	RD (unique items)
S5	6353	S1(5N) (REALTIME OR REAL()TIME)
S6	46062	(DECOD??? OR DECOMPRESS?) (5N) (STREAM??? OR DATA OR INFORMATION OR CONTENT OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S7	139	S5(10N)S6
S8	84	RD (unique items)
S9	40	S8 NOT PY=1995:2003
<del>S10</del>	<del>39</del>	S9 NOT S4

4/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01721936 SUPPLIER NUMBER: 15989065 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**State of the PC industry: getting ready for Windows 95. (fall Comdex 1994 computer show) (Evaluation)**  
Cline, Craig E.; Dyson, Peter E.; Smith, Patricia J.  
Seybold Report on Desktop Publishing, v9, n4, p3(15)  
Dec 12, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0889-9762 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 12981 LINE COUNT: 00978

... 4888, fax (408) 370-4880.  
Mpeg in the display. It is entirely possible to decompress **video** on the **fly** for **display** on a computer screen using nothing but software. (We were particularly impressed with the software...

4/3,K/2 (Item 2 from file: 275)  
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01698398 SUPPLIER NUMBER: 16219794 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**On-line service will let IBM users browse for software. (IBM Global Network for Advantis network users) (Brief Article)**  
Patch, Kimberly  
PC Week, v11, n34, p53(2)  
August 29, 1994  
DOCUMENT TYPE: Brief Article ISSN: 0740-1604 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 352 LINE COUNT: 00028

... a 32-bit image viewer and audio and video viewers, which will allow users to **view movies** on the **fly**. IBM plans to eventually add support for a multimedia version of Presentation Manager, sources said...

4/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01631963 SUPPLIER NUMBER: 14807705 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Movies that move us. (simulator films for special-format theaters) (includes related articles on films for theme parks and the Devil's Mine computer-generated film)**  
Phillips Mahoney, Diana  
Computer Graphics World, v16, n12, p40(7)  
Dec, 1993  
ISSN: 0271-4159 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2565 LINE COUNT: 00198

... company that created the computer animation for the experience. "The Onyx was running high-quality **animation** in real time, **rendering** on -the- **fly**, with many different texture maps and atmospheric perspectives."  
While the technological potential may exist for...

4/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01613696 SUPPLIER NUMBER: 14210943 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**On-line excursions. (Software Review) (includes related articles on modem-monitoring utility, text files that can be read with Easy View utility) (ZiffNet/Mac - Column) (Evaluation)**

MacUser, v9, n10, p174(1)

Oct, 1993

DOCUMENT TYPE: Evaluation ISSN: 0884-0997

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 887 LINE COUNT: 00070

... artfully displays modem lights on your menu bar and lets you peek into the data **stream** to **watch** text as it's sent and **received**. It also supports Apple events and generates report files that you can exchange with your...

**4/3,K/5 (Item 5 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01602537 SUPPLIER NUMBER: 13973721 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Xerox intros Liveboard electronic chalkboard. (Product Announcement)**

Rohrbough, Linda

Newsbytes, NEW05190002

May 19, 1993

DOCUMENT TYPE: Product Announcement LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 540 LINE COUNT: 00042

... that the board can also function as a large interactive computer display, or it can **display** full-motion, color **video** with **sound**. Extra **adaptive** equipment and an ISDN phone line is needed to use the Liveboard for live video...

**4/3,K/6 (Item 6 from file: 275)**

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01579557 SUPPLIER NUMBER: 13047731 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Making a choice in an era of change. (Hardware Review) (37 graphics**

**adapters reviewed) (includes related articles on Editors' Choices, highlights, capabilities of accelerator chips) (Evaluation)**

Poor, Alfred

PC Magazine, v12, n1, p165(24)

Jan 12, 1993

DOCUMENT TYPE: Evaluation ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 11760 LINE COUNT: 00869

... fully rendered animation frame in memory, where it awaits what's awaiting? IRISvision or fully **rendered animation** frame? its turn for **display**. Otherwise, the board rasterizes the **animation on the fly**, which can result in jerkiness. The IRISvision board also supports motion interpolation, which can speed...

**4/3,K/7 (Item 7 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01440197 SUPPLIER NUMBER: 11020064 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Smoothing the way for video images. (New Media) (column)**

Rosenthal, Steve

MacWEEK, v5, n25, p36(1)

July 16, 1991

DOCUMENT TYPE: column ISSN: 0892-8118

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 650 LINE COUNT: 00049

... bits just to fit them between other bits, the extra smoothing data could be generated **on the fly** during **display**.

Multiple **streams**. Admittedly, the hardware for real-time video smoothing on the Macintosh hasn't even been...

**4/3,K/8 (Item 8 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01428353 SUPPLIER NUMBER: 10654206 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Video capturing grabs attention. (Hardware Review) (evaluation of four video capture boards) (includes related article on using images from TV networks, summary article) (evaluation)**

Ford, Ric

MacWEEK, v5, n17, p34(2)

April 30, 1991

DOCUMENT TYPE: evaluation ISSN: 0892-8118 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2879 LINE COUNT: 00224

...ABSTRACT: the other boards. RasterOps' Video ColorBoard 364 costs \$1,294 and can grab multiple images **on the fly** and **display** live **video** in real time. Its features are effective and flexible as well as easy to use...

**4/3,K/9 (Item 9 from file: 275)**

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01426033 SUPPLIER NUMBER: 10526018 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**MiniFinders. (buyers guide)**

MacUser, v7, n5, p277(10)

May, 1991

DOCUMENT TYPE: buyers guide ISSN: 0884-0997 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 15085 LINE COUNT: 01217

... RasterOps ClearVue/SE 1/2

A "best buy" for SE owners, the 19-inch ClearVue **display** system features a **video** card that doubles **as** a CPU accelerator. This model **received** a high score for its MTF sharpness and offers good focus and brightness. Includes excellent...

**4/3,K/10 (Item 10 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01415132 SUPPLIER NUMBER: 09239158 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Compression.**

Seybold Report on Desktop Publishing, v5, n5, p21(1)

Jan 1, 1991

ISSN: 0889-9762 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 682 LINE COUNT: 00053

... by-frame. The data was then troed on a read-write optical drive and decompressed **on the fly** to the **display** monitor.

The Digital **Film** board is still in its early stages of development, so release and pricing have not...

**4/3,K/11 (Item 11 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01404705 SUPPLIER NUMBER: 11262653

**The scientific data decade. (Viewpoints)**

Jones, Anita K.

Computer, v24, n9, p102(2),  
Sept, 1991

ISSN: 0018-9162

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

...ABSTRACT: of data analysis and management functions, creation of faster and cheaper recording mechanisms, data calibration **on -the- fly**, development of data **animation** and **display** algorithms, and algorithmic and browse functions for analyzing unfamiliar data collections.

**4/3,K/12 (Item 12 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01305900 SUPPLIER NUMBER: 07574024 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Video: where Apple's headed. (News Analysis)**

Macielmo, Connie

MacWEEK, v3, n31, p1(2)

August 22, 1989

ISSN: 0892-8118

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 666 LINE COUNT: 00051

... of DVI criticize it because it divides the world into separate classes of producers and **viewers** of interactive **multimedia**.

While Perlman's demonstration of **on -the- fly** decompression was impressive, he didn't show real-time compression. He also wasn't working...

**4/3,K/13 (Item 13 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01305972 SUPPLIER NUMBER: 07424626 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**After hours. (music composition software)**

Bassett, Rick

PC Magazine, v8, n14, p489(3)

August, 1989

DOCUMENT TYPE: evaluation

ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1747 LINE COUNT: 00137

... Designed as a truly interactive environment, Sound Globbs allows you to change any musical characteristic **on the fly** and **hear** the results immediately. **Sound** Globbs requires knowledge of only a few traditional musical terms. The graphic display makes many...

**4/3,K/14 (Item 14 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01291435 SUPPLIER NUMBER: 07342619 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Chip set speeds color image processing. (Data Translation DT2871)**

Curran, Lawrence

Electronic Design, v37, n1, p147(3)

Jan 12, 1989

ISSN: 0013-4872

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1062 LINE COUNT: 00081

... computer bus, including the VMEbus and Q-bus. The frame-grabber board captures, processes, and **displays** color images from **video** sources **on the fly**. It finds use in applications ranging from animation and film coloring to medical imaging and...

**4/3,K/15 (Item 15 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01261237 SUPPLIER NUMBER: 07349707 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Product directory. (1989 Buyers Guide) (buyers guide)**  
Lasers & Optronics, v7, n13, p329(166)  
Annual, 1988  
DOCUMENT TYPE: buyers guide ISSN: 0892-9947 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 130523 LINE COUNT: 10035

... 845 3402 See ad pg. 361 Zeta International Corp. 312 398 4542  
Deposition Equipment, Thin- film ( see Thin- Film Deposition  
Equipment)  
Detector-Amplifiers **Adaptive** Optics Associates, Inc. 617 864 0201  
Advanced Optoelectronics 818 369 6886 See ad pg. 383...

**4/3,K/16 (Item 16 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01252560 SUPPLIER NUMBER: 06956575 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Interactive cultures. (Macintosh-aided creativity in music) (includes  
related articles on Mac-aided film scoring standards, Midi standards,  
music-sound effect sequencing and cueing software, using the STELLA for  
Business simulation program, connecting a Synclavier digital audio  
workstation to a Mac, recording studio management software, and  
algorithmic music software)**  
Zilber, Jon  
MacUser, v4, n10, p100(17)  
Oct, 1988  
ISSN: 0884-0997 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 11624 LINE COUNT: 00885

... directly. The MTC lockup also lets you use the tempo tap feature to  
create tempos **on -the- fly** as you **watch** the **video** . The program can be  
set to average out minor inconsistencies in your tapping.  
Cue can...

**4/3,K/17 (Item 17 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01211077 SUPPLIER NUMBER: 06073483 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PC-to-dedicated CPU links meet special needs. (Section 2: Connectivity)**  
Gorin, Amy  
PC Week, v4, n44, pC26(4)  
Nov 3, 1987  
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3099 LINE COUNT: 00236

... controllers (which are controlled by the Tandem VLX) that control  
the phone interface and the **video - display** system, respectively.  
**As** input is **received** from customers' telephones, the VLX has  
pictures of products sent to customers' homes. The devices...

**4/3,K/18 (Item 1 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod. Annou. (R)  
(c) 2003 The Gale Group. All rts. reserv.

01227418 Supplier Number: 43996301 (USE FORMAT 7 FOR FULLTEXT)  
**ASC MultiMedia/VIDEO CONFERENCING SYSTEM**  
News Release, p1  
July 29, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 230

... VIDEO TELECONFERENCING - HIGH-QUALITY MEDIA COMMUNICATIONS  
- INTERACTIVE VIDEO/VOICE/DATA - OPEN ARCHITECTURE COMPATIBILITY  
- ON-LINE VIDEO /WINDOWS DISPLAY  
- COLLABORATIVE EOMPUTING FUNCTIONS  
- VIDEO AND GRAPHICS PROCESSING - ADAPTIVE  
DIGITAL-DATA COMPRESSION  
- DIAL-UP PHONE COMMUNICATIONS - LAN/WAN & CELLULAR/R.F. NETWORKS

The ASC...

4/3,K/19 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01197998 Supplier Number: 43167907 (USE FORMAT 7 FOR FULLTEXT)  
**Radius Introduces High-Performance 20-Inch Display with Advanced Color Imaging Software**  
News Release, pl  
July 22, 1992  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 672

... High-Performance 20-Inch Display with  
Advanced Color Imaging Software

Precision Color Display/20S first **display** to optimize Quadra Built-in **Video** with 24-bit color, **on -the- fly** resolution and bit-depth switching

SAN JOSE, Calif.-- July 22, 1992-- Radius Inc. (NASDAQ-RDUS...

4/3,K/20 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

02102281 Supplier Number: 43890178 (USE FORMAT 7 FOR FULLTEXT)  
**SECOND TELCO/CABLE PARTNERSHIP RUMORED**  
Video Technology News, v6, n12, pN/A  
June 7, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 398

... stripped-down television set with an insertable module it calls a "Joey." It will function **as** the brains of the set, **receiving** and **displaying** a wide variety of **video** services, including standard television, digital audio, data and telephony. The concept is to separate the...

4/3,K/21 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02087446 Supplier Number: 43847553 (USE FORMAT 7 FOR FULLTEXT)  
**Xerox Intros Liveboard Electronic Chalkboard 05/19/93**  
Newsbytes, pN/A  
May 19, 1993  
Language: English Record Type: Fulltext  
Document Type: Newswire; General Trade  
Word Count: 493

... that the board can also function as a large interactive computer display, or it can **display** full-motion, color **video** with **sound**. Extra

adaptive equipment and an ISDN phone line is needed to use the Liveboard for live video...

4/3,K/22 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01933615 Supplier Number: 43402111 (USE FORMAT 7 FOR FULLTEXT)  
**ISDN AND MULTIMEDIA: THE DYNAMIC DUO?**  
Multimedia Week, v1, n11, pN/A  
Oct 26, 1992  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 514

... and sales; Teleservice - Help desk, technical support, training; and Teledistribution - Pay-per-access for information, **multimedia** videotext.

Additionally, Olivetti **sees multimedia** personal communication service **as** a suitable platform for **receiving** broadcasts from satellite, CATV and traditional terrestrial sources. Typical applications in this area take in...

4/3,K/23 (Item 4 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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01929618 Supplier Number: 43388940 (USE FORMAT 7 FOR FULLTEXT)  
**ISDN AND MULTIMEDIA OFFER OPPORTUNITIES IN EUROPEAN MARKETS**  
ISDN News, v5, n22, pN/A  
Oct 21, 1992  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1082

... and sales;  
Teleservice - Help desk, technical support, training; and  
Teledistribution - Pay-per-access for information, **multimedia** videotext.

Additionally, Olivetti **sees multimedia** personal communication service **as** a suitable platform for **receiving** broadcasts from satellite, cable TV and traditional terrestrial sources. Typical applications in this area take...

4/3,K/24 (Item 5 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01696206 Supplier Number: 42727337 (USE FORMAT 7 FOR FULLTEXT)  
**PPV OLYMPICS: RICH IN NEW TECHNOLOGY BUT BEGGING FOR BANDWIDTH**  
Video Technology News, v5, n3, pN/A  
Feb 3, 1992  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 530

... converters to pay-per-view functionality.  
Jerrold's Olympian 2000 and Impulse 7000 addressable converters **as** well **as** low-cost headed **receiving** equipment.

Kalcom's "Multi- Viewer " system, which puts four **video** signals on one channel, **displaying** them on a four-part screen. Operators could use it to combine data or promotional...

4/3,K/25 (Item 1 from file: 16)



DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

02241970 Supplier Number: 42925467 (USE FORMAT 7 FOR FULLTEXT)  
**Cannes Turns Into 'Toon Town As Nets Survey Global Growth**  
Multichannel News, v13, n16, p3  
April 20, 1992  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 852

... has increased the profile," added Sylvia Delia, vice president of cable sales at BBC Lion- heart Television, who noted that **animation** is particularly **adaptive** to foreign sales because it's done entirely with voice-overs.

The British Broadcasting Corp...

4/3,K/26 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07613779 SUPPLIER NUMBER: 16563350 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Rewritable data-storage system plays your favorite tunes, too. (Sony Corp.'s MD Data system and MDH-10 portable drive) (includes related article)**  
Leonard, James P.  
EDN, v39, n26, p45(3)  
Dec 22, 1994  
ISSN: 0012-7515 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1088 LINE COUNT: 00085

TEXT:

...the equivalent of 100 floppies' worth of data on a single disk. You can also **listen** to **music** and update complex software files **on** the **fly**.

4/3,K/27 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07526081 SUPPLIER NUMBER: 16237338 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Not for those who drive 55: GTSI Desktop IV 486 and EPS Pentium have power to pin GCN's benchmarks. (Government Technology Services Inc's Desktop IV Advanced System, EPS Technologies Inc's Pentium 66) (Hardware Review) (Evaluation)**  
Gallagher, Sean  
Government Computer News, v13, n18, p31(2)  
August 15, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0738-4300 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 972 LINE COUNT: 00071

... resolution levels, though. The card has a Windows control panel that allows you to choose **video** resolution, number of **display** colors and font size **on** the **fly**.

The advantages of SCSI over IDE became obvious when I ran the disk I/O...

4/3,K/28 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

05909710 SUPPLIER NUMBER: 12418621 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Still-image compression vendors seek to embed technology in applications. (Education Report)**

Strothman, Jim  
Computer Pictures, v10, n2, p510(4)  
March-April, 1992  
ISSN: 0883-5683      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 1923      LINE COUNT: 00157

... SCSI interface to the Expressway board, which will allow the real-time output of compressed, **rendered** frames of **animation** that will decompress **on the fly**. This will allow the recording of rendered frames of animation to tape without the use...

4/3,K/29      (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

04635356      SUPPLIER NUMBER: 08491444      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Using readership research to study employee views.**  
Pavlik, John; Vastyan, John; Maher, Michael F.  
Public Relations Review, v16, n2, p50(11)  
Summer, 1990  
ISSN: 0363-8111      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3404      LINE COUNT: 00291

... assumption that audience members actively use the media (Katz, Blumler and Gurevitch, 1974). Rather than **viewing** the audience **as** passively **receiving** **media** messages, this approach **sees** audience members as often purposely using the media (Jeffres, 1975).  
Although the validity of this...

4/3,K/30      (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

04504696      SUPPLIER NUMBER: 08182658      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**No new information emerges from Congressional hearing on Shiley heart valve, Pfizer says.**  
PR Newswire, 0227LA022  
Feb 27, 1990  
LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 322      LINE COUNT: 00027

... adequate for any potential liability related to Shiley Convexo-Concave (C/C) heart valves.  
"The **hearing**, **as** we expected, **received** significant **media** interest, but we believe that the information presented at the hearing will not affect our...

4/3,K/31      (Item 6 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

02967558      SUPPLIER NUMBER: 04352951      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Computer graphics advances to be revealed. (Siggraph '86 convention)**  
**(includes calender of events)**  
Machine Design, v58, p32(3)  
July 24, 1986  
ISSN: 0024-9114      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 1713      LINE COUNT: 00158

... 10:45-12:15  
Applications of incremental rendering--Paper sessions: Realtime time shaded NC milling **display** -- A differential compiler for computer **animation** --Image **rendering** by **adaptive** refinement.  
Computer graphics in scientific animation (Panel) 1:45-3:15  
Natural phenomena I--Paper...

4/3,K/32 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00883431 95-32823

**Packages pick up for posters**

Meller, Paul

Marketing PP: 11 Jun 30, 1994

ISSN: 0025-3650 JRNL CODE: MAR

WORD COUNT: 505

...TEXT: with the normal seasonal drop in prices in mid summer, agrees Rankin.

The three packages ( see box) come on **stream** just as the value assessing system OSCARS **receives** its first update since it was set up in 1983. Sample sizes will be bigger...

4/3,K/33 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2003 CMP Media, LLC. All rts. reserv.

01021149 CMP ACCESSION NUMBER: WIN19940701S0867

**Windows NT 3.5: Slimmer and Faster**

David Methvin and John Ruley

WINDOWS MAGAZINE, 1994, n 507 , 104

PUBLICATION DATE: 940701

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: First Impressions

WORD COUNT: 1378

... applications.

NT 3.5 also offers a significant new end-user feature with support for **on -the- fly** changes to **video** resolution. A new **Display** item in Control Panel lets you select any video mode your driver supports. You can ...

4/3,K/34 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1377298

a3724

ATI introduces the new ATI-TV Wonder(TM), ATI's dedicated TV tuner and video capture card

DATE: November 16, 1919

10:17 EST

WORD COUNT: 1,140

... an entire hard-drive. Digital VCR format empowers Pentium II(R) computers to compress video **on -the- fly** , as it's **viewed** . Up to 9 times more **video** than ever before can be captured, using the same amount of memory, with minimal loss...

10/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01705348 SUPPLIER NUMBER: 16297258 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sun has 64-bit UltraSparc.**  
Computergram International, CGI09200007  
Sept 20, 1994  
ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 33 LINE COUNT: 00004

TEXT:

finally unveiled the 64-bit UltraSparc, which has on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video** effects and texture-mapped triangle **rendering**. Samples arrive in early 1995.

10/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01703973 SUPPLIER NUMBER: 16263686 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sun bares UltraSPARC; sees first silicon close. (Sun Microsystems Inc's UltraSPARC-V9 processor) (Product Announcement)**  
DeTar, Jim  
Electronic News (1991), v40, n2032, p2(2)  
Sept 19, 1994  
DOCUMENT TYPE: Product Announcement ISSN: 1061-6624 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 692 LINE COUNT: 00056

...ABSTRACT: eight pixels per cycle. The processor reportedly includes on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video** effects, and texture-mapped triangle **rendering** applications. The initial implementation will run at 167MHz; it maintains binary compatibility with hardware and...

... RISC processor is said by Sun to include on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video** effects and texture-mapped triangle **rendering** applications.

UltraSPARC-V9 is composed of five main blocks. Execution is performed by nine functional...

10/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01640689 SUPPLIER NUMBER: 15005276  
**Digital video goes real-time; the VideoRISC Compression Architecture enables real-time MPEG 1 and 2 video encoding and decoding. (C-Cube Microsystems debuts VideoRISC Compression Processor) (State of the Art) (Product Announcement)**

Wayner, Peter  
Byte, v19, n1, p107(5)  
Jan, 1994  
DOCUMENT TYPE: Product Announcement ISSN: 0360-5280 LANGUAGE:  
ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: and price of their products. The VCP can perform MPEG 1 and MPEG 2 digital **video** compression (encoding) and **decompression** (**decoding**) in **real time**, enabling **display** of full-screen, **real - time video** on computers. MPEG 1 handles input signal resolutions of 30-by-240 pixels and requires...

10/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)

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01533814 SUPPLIER NUMBER: 12661985 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**New for the Mac: daughter board for full motion video. (Rasterops Corp.'s  
Moviepak graphics board)**  
Rohrbough, Linda  
Newsbytes, NEW09170010  
Sept 17, 1992  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 199 LINE COUNT: 00016

TEXT:

...Moviepak is the name Rasterops has given to its new daughterboard that connects to Rasterops **video display** adapters and allows **real - time** compression and **decompression** of full-screen, full-motion **video** on the Apple Macintosh.

10/3,K/5 (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01507920 SUPPLIER NUMBER: 11940135 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Desktop video: new technologies offer new possibilities. (New Trends In. .  
.)**  
Greenfield, Elizabeth  
T H E Journal (Technological Horizons In Education), v19, n6, p8(4)  
Jan, 1992  
ISSN: 0192-592X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2351 LINE COUNT: 00187

... set occupies two ISA slots in a 386 computer running Windows. The boards compress and **decompress** digital **audio** and full-motion **video** in **real time**, then **display** those signals in sizeable, on-screen windows. An Intel 960CA RISC-based chip and 4MB...

10/3,K/6 (Item 6 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01445544 SUPPLIER NUMBER: 11159313 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Video editors cut a broad swath. (1991 Digital World trade show)**  
Banet, Bernard  
Digital Media, v1, n2, p15(2)  
July 1, 1991  
ISSN: 1056-7038 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1204 LINE COUNT: 00099

... and the professional video suite.  
Compression to the people. The emerging generation of "moving JPEG" **video** compression and **decompression** chips and software performs motion **video** capture and **display** in **real time** from a **video** camera or video tape recorder. Aided by media integration software, such as Apple Computer's...

10/3,K/7 (Item 7 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01431713 SUPPLIER NUMBER: 10772287 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The Mac/TV connection: desktop video. (Hardware Review) (multimedia  
products for Macintosh) (includes summary article) (evaluation)**  
Yi, Paul  
MacUser, v7, n7, p124(13)  
July, 1991  
DOCUMENT TYPE: evaluation ISSN: 0884-0997 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5822 LINE COUNT: 00441

... fourth quarter of this year. At the high end - around \$5,000 - is a Mac **display** card that can digitize **video** with **real - time** JPEG compression and **decompression**, digitize **audio**, and output both to videotape.

SuperMac will also be offering a low-end video and...

10/3,K/8 (Item 8 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01366185 SUPPLIER NUMBER: 08745920 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Mac in transition at expo. (MacWorld Exposition trade show in Boston)**  
MacWEEK, v4, n28, p1(2)  
August 14, 1990  
ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 469 LINE COUNT: 00038

... of the products and technology he showcased were multimedia-related. They included SuperMac Technology's **real - time** digital- **video** compression and **decompression** technology ( **see** story, Page 1); Apple's Advanced Technology Group's Apple Movie Scanner, a prototype user...

10/3,K/9 (Item 9 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01307903 SUPPLIER NUMBER: 07574132 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**JLG: making multimedia Mac-ish. (Jean-Louis Gassee, Apple Macintosh)**  
Ruby, Dan  
MacWEEK, v3, n31, p1(2)  
August 22, 1989  
ISSN: 0892-8118 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 430 LINE COUNT: 00034

... a long time," he said.  
The biggest technical hurdle is the development of "symmetrical, layered, **real - time video** compression and **decompression**," Gassee said ( **see** related story, Page 1).  
"That's a combination of mathematics and silicon that the industry...

10/3,K/10 (Item 10 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01301151 SUPPLIER NUMBER: 07413080 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Life before the chips: simulating Digital Video Interactive technology.**  
(Special Section) (technical)  
Dixon, Douglas F.  
Communications of the ACM, v32, n7, p824(8)  
July, 1989  
DOCUMENT TYPE: technical ISSN: 0001-0782 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4111 LINE COUNT: 00331

...ABSTRACT: that digitized and compressed motion video, storing the data on microcomputer storage devices, and then **decompressing** and **displaying** **data** as **real - time video** sequences. During hardware design and development, ongoing technical simulations and product concept demonstrations were required...

TEXT:

...and text. Motion video now could be digitized and compressed down to personal computer disk **data** rates, and then **decompressed** and displayed on the DVI hardware as **real - time video** sequences. See for overviews of DVI technology and applications of interactive video, and for more in...

10/3,K/11 (Item 11 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01278347 SUPPLIER NUMBER: 07799588  
**Intel adds Pro75 ADP; offers multimedia development platform. (product announcement)**  
Gillooly, Brian  
Computer Reseller News, n338, p65(2)  
Oct 23, 1989  
DOCUMENT TYPE: product announcement ISSN: 0893-8377 LANGUAGE:  
ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: incorporates the Intel i750 chip set, which includes the 82750PA pixel processor and the 82750DA **display** processor. **Real - time video** compression, **decompression**, full-motion **video** and manipulation of images are features provided by the chips.

10/3,K/12 (Item 12 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01207622 SUPPLIER NUMBER: 06168654 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**New CD-ROM format brings real-time video. (Ideas & Trends) (column)**  
Robertson, Barbara  
Lotus, v3, n5, p14(5)  
May, 1987  
DOCUMENT TYPE: column ISSN: 8756-7334 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 2315 LINE COUNT: 00178

... with two IBM PC AT boards--one with proprietary chips for parallel pixel processing and **real - time video decompressing** and **display**, and one with **audio** chips--is expected to cost between \$3,000 and \$4,000, although RCA scientists claim...

10/3,K/13 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02575887 Supplier Number: 45203115 (USE FORMAT 7 FOR FULLTEXT)  
**CHIPS: SUN'S ULTRASPARC FIRST SILICON SCREAMS; PROCESSOR IS FUNCTIONAL & FAST**  
EDGE: Work-Group Computing Report, v5, n238, pN/A  
Dec 12, 1994  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 419

... UltraSPARC is the industry's first processor with on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video** effects and texture-mapped triangle **rendering**. Initial UltraSPARC devices are expected to range in clock speed from 140 MHz to 200...

10/3,K/14 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02498620 Supplier Number: 45018883 (USE FORMAT 7 FOR FULLTEXT)

**THIS WEEK IN MULTIMEDIA HARDWARE**

Multimedia Week, v3, n38, pN/A

Sept 26, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 388

... 10-3-94

619/457-5500 x208

Sun Microsystems SPARC Technology Business

UltraSPARC

on-chip **multimedia** support, **real - time** MPEG-2 **decompression** ,  
**video**

effects and texture-mapped triangle **rendering**

N/A

Q1 1995

408/774-8675

Source: MULTIMEDIA WEEK

Copyright 1994 Phillips Business Information...

**10/3,K/15 (Item 3 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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02497972 Supplier Number: 45018119 (USE FORMAT 7 FOR FULLTEXT)

**CHIPS: SUN'S SPARC TECHNOLOGY BUSINESS DISCLOSES NEXT-GENERATION PROCESSOR;**

**INDUSTRY'S FIRST PROCESSOR TO OFFER ON-CHIP PROCESSING POWER FOR**

**REAL-TIME MULTIMEDIA COMPRESSION & DECOMPRESSION**

EDGE: Work-Group Computing Report, v5, n227, pN/A

Sept 26, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 734

... UltraSPARC is the industry's first processor with on-chip  
multimedia support for desktop videoconferencing, **real - time** MPEG-2  
**decompression** , **video** effects and texture-mapped triangle **rendering** .  
The company estimates the multi-member UltraSPARC family's SPECint92 values  
to range from 200...

**10/3,K/16 (Item 4 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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01973968 Supplier Number: 43522271 (USE FORMAT 7 FOR FULLTEXT)

**SATELLITE SPOTLIGHT: NRTC REVIEWS PROGRAMMERS FOR DIRECTV\***

Satellite News, v15, n49, pN/A

Dec 14, 1992

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 262

... satellite. The demonstration, held at the David Sarnoff Research  
Center in Princeton, N.J., involved **real - time** MPEG digital compression  
and **decompression** . **Video** images were **displayed** in various sizes,  
resolutions and aspect ratios.

Thomson Consumer Electronics is developing the compression technology

...

**10/3,K/17 (Item 5 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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01972440 Supplier Number: 43515851 (USE FORMAT 7 FOR FULLTEXT)  
**RURAL COOPERATIVE REVIEWS CONTRACTS FOR 'CORE' PROGRAMMERS ON HUGHES DBS SERVICE**

Home Media Technology News, v3, n25, pN/A  
Dec 10, 1992  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 260

... satellite. The demonstration, held at the David Sarnoff Research Center in Princeton, N.J., involved **real - time** MPEG digital compression and **decompression**. **Video** images were **displayed** in various sizes, resolutions and aspect ratios.

Thomson Consumer Electronics is developing the compression technology

...

**10/3,K/18 (Item 6 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01900798 Supplier Number: 43305665 (USE FORMAT 7 FOR FULLTEXT)  
**New For Mac: Daughter Board For Full Motion Video 09/17/92**  
Newsbytes, pN/A  
Sept 17, 1992  
Language: English Record Type: Fulltext  
Document Type: Newswire; General Trade  
Word Count: 177

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Moviepak is the name Rasterops has given to its new daughterboard that connects to Rasterops **video display** adapters and allows **real - time** compression and **decompression** of full-screen, full-motion **video** on the Apple Macintosh.

**10/3,K/19 (Item 7 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01838433 Supplier Number: 43134674 (USE FORMAT 7 FOR FULLTEXT)  
**DIGITAL WORLD VIEW: BITS AND BYTES NIBBLE ON NEW MARKETS**  
Video Technology News, v5, n14, pN/A  
July 6, 1992  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 572

... to a mass market. Product due 1993.

C-Cube showed its new CL-450 MPEG **video -only decoder** chip **displaying** good-quality **video** in **real time**. Single-chip encoders may be 18 months away, said vice president of marketing Rick Rasmussen...

**10/3,K/20 (Item 8 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01638678 Supplier Number: 42544979 (USE FORMAT 7 FOR FULLTEXT)  
**DVI VS. JPEG: WHICH ONE DELIVERS THE FULL-MOTION VIDEO GOODS?**  
Video Technology News, v4, n24, pN/A  
Nov 25, 1991  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 836

... Video video window controller.

The board includes a number of functions to control the compression, **decompression** and **display** of **video** in **real time**. The kit, which will cost \$4,000, also includes source code for the CL550 driver...

10/3,K/21 (Item 9 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01163429 Supplier Number: 41001223 (USE FORMAT 7 FOR FULLTEXT)  
**CD-ROM AND COMPACT DISC by Mary Ann O'Connor First DVI Technology Products**  
**Now Available**  
Optical Information Systems Update, v8, n14, pN/A  
Nov, 1989  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 530

... and conditions. Whether sold separately, or within the Pro750 ADP, three basic boards are provided:  
-- **Video Board** - contains the i750 **video display** processors for high-performance **video** and graphics manipulation, **real -- time** compression and **decompression**. A **video** digitizer module allows image capture and digitization.  
-- **Audio Board** - provides multitrack, multichannel digital output. Add  
...

10/3,K/22 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

03568773 Supplier Number: 45015603  
**UltraSparc design makes early debut**  
Electronics, p8  
Sept 26, 1994  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; General

ABSTRACT:  
...a month earlier than planned. The new chip features on-board processing power for 2 **real - time** MPEG-2 **decompressions**, desktop **video** conferencing, and texture-mapped triangle **rendering**. UltraSparc supports 32 floating-point registers to decrease load/store operations and the chip computes...

10/3,K/23 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

03559927 Supplier Number: 45001349 (USE FORMAT 7 FOR FULLTEXT)  
**Sun Bares UltraSPARC; Sees First Silicon Close**  
Electronic News (1991), p2  
Sept 19, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 635

... The RISC processor is said by Sun to include onchip multimedia support for desktop videoconferencing, **real - time** MPEG-2 **decompression**, **video** effects and texture-mapped triangle **rendering** applications.  
UltraSPARC-V9 is composed of five main blocks. Execution is performed by nine functional...

10/3,K/24 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

03087522 Supplier Number: 44206313 (USE FORMAT 7 FOR FULLTEXT)

**Calypso pushes PC, television integration with new products**

Computer Reseller News, p56

Nov 1, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 411

... based on at least an Intel Corp. 286 microprocessor.

PC Vision TTX provides users with **realtime** television **viewing**, including Teletext **decoding**, **video** capturing, **video** editing and full-digital sound capabilities, said Calypso.

Like PC Vision Pro, the realtime product...

10/3,K/25 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

03043556 Supplier Number: 44139058 (USE FORMAT 7 FOR FULLTEXT)

**THE VIDEO SQUEEZE**

VARbusiness, p135

Oct 1, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1814

... one side of the process (whether the process is sending data over a network or **displaying real - time animation** from **data** on a hard disk) and **decompress** it on the other. I'm going to go through some of the more common...

10/3,K/26 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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01838221 Supplier Number: 42325132

**Desktop Digital Video**

Computer Graphics World, p21

Sept, 1991

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

**ABSTRACT:**

...bundles 2 AT-compatible boards with FluentStreams software program. The VSA-1000 board set offers **real - time** capture, compression, **decompression**, and a **display** of digital **video** and **audio** data. Fluent states that applications like computer-based training, medical imaging, and video kiosks that...

10/3,K/27 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

07558872 SUPPLIER NUMBER: 16336790 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**UltraSparc design makes early debut. (Sun Microsystems Computer Corp. SPARC Technology Business' microprocessor chip) (Product Announcement)**

Taninecz, George

Electronics, v67, n18, p8(1)

Sept 26, 1994

DOCUMENT TYPE: Product Announcement ISSN: 0883-4989

LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 237 LINE COUNT: 00019

...ABSTRACT: The UltraSparc is a 64-bit chip that incorporates on-board processing capabilities for two **real - time MPEG-2 decompressions**, desktop **video** conferencing, and texture-mapped triangle **rendering**. The current Sparc chip has a SPECint92 of 200-400 and SPECfp92 of 250-500...  
... limelight from UltraSparc.

The 64-bit chip will incorporate on-board processing power for two **real - time MPEG-2 decompressions**, desktop **video** conferencing, and texture-mapped triangle **rendering**. Sparc for now claims the top spot on the RISC performance hill with a SPECint92...

10/3,K/28 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

06750858 SUPPLIER NUMBER: 14535688 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Fax cards + software. (facsimile cards and software)**  
Frangini, Monica  
Computer Dealer News, v9, n20, p63(2)  
Oct 4, 1993  
ISSN: 1184-2369 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1604 LINE COUNT: 00121

... allow the user to compress and transmit a full-color video, complete with sound. The "**video mail**" recipient will then **decompress** and **display the video in real - time**.

The product, called HydraWorks, uses the BFT feature in the fax standards to transmit and...

10/3,K/29 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

06479981 SUPPLIER NUMBER: 13978616 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Video and multimedia boards: building a system for your system. (includes related article)**  
Antoniak, Mike  
AVC Presentation For The Visual Communication, v27, n5, p28(4)  
May, 1993  
ISSN: 1062-2683 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2271 LINE COUNT: 00180

... compatibles and Apple Macintosh II and Quadra computers. The expansion board accepts input from any **video** source to provide **real - time display** and image manipulation capabilities.

Related products from VideoLogic include **Media Space**, a **video** compression/ **decompression** system for capturing **video** with a hard drive, and Mediator, an add-on that lets users store programming created...

10/3,K/30 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

04919299 SUPPLIER NUMBER: 10703690 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Silicon valley. (Intel Corp. files suit against Advanced Micro Devices for trademark infringement; LSI Logic enters video compression market)**  
(column)  
Nield, Gary  
Canadian Electronics, v5, n15, p8(1)  
Nov, 1990  
DOCUMENT TYPE: column ISSN: 0832-1515 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 985 LINE COUNT: 00074

... on other offerings such as Intel's Digital Video Interactive board set, which can only **decompress** and **display video in real time**.

DVI compression requires a front-end system along the lines of a DEC VAX.  
The...

10/3,K/31 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2003 CMP Media, LLC. All rts. reserv.

01029565 CMP ACCESSION NUMBER: EBN19940926S0033  
**Sun Singing Praises Of 64-Bit UltraSparc** (Heard)  
Hugh G. Willett  
ELECTRONIC BUYER'S NEWS, 1994, n 923, PG16  
PUBLICATION DATE: 940926  
JOURNAL CODE: EBN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Semiconductors  
WORD COUNT: 257

The 64-bit UltraSparc is the first processor with on-chip support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video effects**, and texture-mapped triangle **rendering**, Sun said. The MPU is capable of SPECint92 values from 200 to 400 and SPECfp92...

10/3,K/32 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2003 CMP Media, LLC. All rts. reserv.

00543381 CMP ACCESSION NUMBER: CRN19931101S1732  
**Calypso pushes PC, television integration with new products**  
DIANA HWANG  
COMPUTER RESELLER NEWS, 1993, n 551, 56  
PUBLICATION DATE: 931101  
JOURNAL CODE: CRN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: EMERGING TECHNOLOGIES  
WORD COUNT: 417

... based on at least an Intel Corp. 286 microprocessor.  
PC Vision TTX provides users with **realtime television viewing**, including Teletext **decoding**, **video capturing**, **video editing** and full-digital sound capabilities, said Calypso.  
Like PC Vision Pro, the realtime product...

10/3,K/33 (Item 3 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2003 CMP Media, LLC. All rts. reserv.

00541841 CMP ACCESSION NUMBER: VAR19931101S0187  
**THE VIDEO SQUEEZE - Compression is the Key to Video Computing** (TECH INSIDER)  
Curtis Franklin Jr.  
VARBUSINESS, 1993, n 917, 135  
PUBLICATION DATE: 931101  
JOURNAL CODE: VAR LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: TECHNOLOGY  
WORD COUNT: 1799

... one side of the process (whether the process is sending data over a network or **displaying real - time animation** from **data** on a hard disk) and **decompress** it on the other. I'm going to go through some of the more common...

10/3,K/34 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire

(c) 1999 Business Wire . All rts. reserv.

0449318 BW0109

**SUN MICROSYSTEMS: SUN'S ULTRASPARC FIRST SILICON SCREAMS; PROCESSOR IS FUNCTIONAL AND FAST**

December 06, 1994

Byline: Business Editors

...UltraSPARC is the industry's first processor with on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video effects** and texture-mapped triangle **rendering**. Initial UltraSPARC devices are expected to range in clock speed from 140 MHz to 200...

10/3,K/35 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0430593 BW1070

**SUN MICRO SPARC: SUN'S SPARC TECHNOLOGY BUSINESS DISCLOSES NEXT-GENERATION PROCESSOR; INDUSTRY'S FIRST PROCESSOR TO OFFER ON-CHIP PROCESSING POWER FOR REAL-TIME MULTIMEDIA COMPRESSION AND DECOMPRESSION**

September 19, 1994

Byline: Business Editors

...UltraSPARC is the industry's first processor with on-chip multimedia support for desktop videoconferencing, **real - time MPEG-2 decompression**, **video effects** and texture-mapped triangle **rendering**. The company estimates the multi-member UltraSPARC family's SPECint92 values to range from 200...

10/3,K/36 (Item 3 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0381824 BW247

**Business Wire Recap**

January 26, 1994

Byline: EDITORS

...51)  
(XING-TECHNOLOGY-CORP) ARROYO GRANDE, Calif.--Xing Technology offers Picture Prowler Access Kit to **multimedia** developers; industry's fastest JPEG **decompression** engine adds **real - time**, full-screen color & greyscale image **display** to image-intensive **multimedia** applications (BW053 9:59)  
(TECHNOLOGY-FORUMS) ST. PETER, Minn.--REMINDER/Gigabit Highway Forum features speakers...

10/3,K/37 (Item 4 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0381605 BW053

**XING TECHNOLOGY CORP: Xing Technology offers Picture Prowler Access Kit to**

multimedia developer; industry's fastest JPEG decompression engine  
adds real - time , full-screen color & greyscale image display to  
image-intensive multimedia applications

January 26, 1994

Byline: Business Editors & Computer/Electronics Writers

Xing Technology offers Picture Prowler Access Kit to multimedia  
developers; industry's fastest JPEG decompression engine adds real  
- time , full-screen color & greyscale image display to  
image-intensive multimedia applications

10/3,K/38 (Item 5 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0370724 BW022

MEDIA COMP MED VIS PHILP: Media Computer Technologies to show a first low  
cost true color full motion video compressor/de-compressor board using  
industry standard MSVideo-1 compressor

November 18, 1993

Byline: Business Editors and Computer Writers

...record and playback functions and video  
windowing in Super VGA graphic screens. During compression and  
decompression processes MVM121A reads out video data from VRAM and  
displays it in real - time in a video window. With built-in display

windowing and VGA color keying capabilities of MVM121A it does  
graphics and video mixing on...

10/3,K/39 (Item 6 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0361372 BW126

CALYPSO MICRO PRODUCTS: Calypso Micro Products heats up multimedia market  
with release of PC Vision TTX

October 12, 1993

Byline: Business Editors/Computer Writers

...runs on any IBM PC 286, 386, 486  
and higher compatibles.  
PC Vision TTX allows real - time television viewing with Teletext  
decoding , video capturing, video editing and full digital sound.  
"With PC Vision TTX, computer users can now run a...

File 347:JAPIO Oct 1976-2003/Jul(Updated 031105)

(c) 2003 JPO & JAPIO

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200376

(c) 2003 Thomson Derwent

Set	Items	Description
S1	97837	(RENDER? OR DISPLAY? OR LISTEN??? OR HEAR??? OR VIEW??? OR WATCH??? OR SEE???) (5N) (STREAM??? OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S2	52334	(DECOD??? OR DECOMPRESS?) (5N) (STREAM??? OR DATA OR INFORMATION OR CONTENT OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S3	707	S1(5N) (ON(1W) FLY OR ADAPTIV? OR AS(5W) (RECEIVED OR RECEIVES OR RECEIVING))
S4	414	S1(5N) (REALTIME OR REAL()TIME)
S5	277	S2 AND S4



3/5/22 (Item 22 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03668388 \*\*Image available\*\*  
VIDEO TELEPHONE SET

PUB. NO.: 04-033488 [JP 4033488 A]  
PUBLISHED: February 04, 1992 (19920204)  
INVENTOR(s): KAWAI TAKAHIRO  
HATA MIKIHICO  
APPLICANT(s): HITACHI COMMUN SYST INC [491082] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 02-138486 [JP 90138486]  
FILED: May 30, 1990 (19900530)  
INTL CLASS: [5] H04N-007/14; H04M-011/06  
JAPIO CLASS: 44.6 (COMMUNICATION -- Television); 29.1 (PRECISION  
INSTRUMENTS -- Photography & Cinematography); 44.4  
(COMMUNICATION -- Telephone)  
JOURNAL: Section: E, Section No. 1202, Vol. 16, No. 204, Pg. 144, May  
15, 1992 (19920515)

#### ABSTRACT

PURPOSE: To avoid a received picture from being directly observed by using  
a video camera, a video monitor, a microphone and a speaker as basic  
components and processing the **received** picture data and **displaying** the  
result onto the **video** monitor.

CONSTITUTION: The received picture data is converted into a data at a  
spatial frequency region by a 2-dimension FFT (high speed Fourier  
transformation section) 4 in a digital filter section 8 and outputted to a  
filtering section 5. On the other hand, a filter control section 9 extracts  
a filter function stored in advance in a filter data memory 10 and outputs  
it to the filtering section 5 and the data of the spatial frequency region  
and the filter function are used to apply calculation and the high  
frequency component is eliminated from the data at the spatial frequency  
region and the result is restored into a picture data by the 2-dimension  
inverse FFT 6. When a picture by which a called party feels a sense of  
displeasure in this way, the filter function stored in the filter data  
memory 10 is used to eliminate the high frequency component of the picture  
data, then the received picture is fogged

3/5/60 (Item 36 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

010571473 \*\*Image available\*\*  
WPI Acc No: 1996-068426/199607  
XRPX Acc No: N96-057545

Real-time compressed video bitstream transmission method over lossy  
packet networks - transmitting high and low priority segments of original  
bitstream sequentially, with high priority sent over low-loss channel and  
stores at receiver which re-interleaves signal as low-priority segment is  
received from lossy channel

Patent Assignee: AT & T IPM CORP (AMTT ); AMERICAN TELEPHONE & TELEGRAPH  
CO (AMTT ); AT & T CORP (AMTT )

Inventor: CASH G L; CIVANLAR M R

Number of Countries: 004 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5481312	A	19960102	US 94304339	A	19940912	199607 B
			US 94342404	A	19941118	
EP 701376	A2	19960313	EP 95306064	A	19950830	199615
JP 8088653	A	19960402	JP 95258214	A	19950912	199623

Priority Applications (No Type Date): US 94342404 A 19941118; US 94304339 A  
19940912

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5481312	A		13	H04N-007/12	CIP of application US 94304339
EP 701376	A2 E		14	H04N-007/24	
Designated States (Regional): DE GB					
JP 8088653	A		11	H04L-012/64	

Abstract (Basic): US 5481312 A

The method includes transmitting (200) a high priority partition, containing high priority segments of a video bitstream, over a facility (210) using a packet delivery mechanism with a known probability of success. After completion of this transmission, a low priority partition containing low priority bitstream segments is similarly transmitted in real time using packet delivery of lower success rate.

A receiver (220,230) individually and sequentially receives and stores the high and low priority portions. Each high priority segment is stored (222,232) as it is received and is then interleaved (221,231) with its corresponding low priority segment **as** this segment is **received** to create an interleaved **video** bitstream available for real-time **display** (225,235).

USE/ADVANTAGE - E.g. for transmission of MPEG-2 signals over ATM lines. Reduces effects of packet loss on image quality.

Dwg.2/6

Title Terms: REAL; TIME; COMPRESS; VIDEO; BITSTREAM; TRANSMISSION; METHOD; LOSS; PACKET; NETWORK; TRANSMIT; HIGH; LOW; PRIORITY; SEGMENT; ORIGINAL; BITSTREAM; SEQUENCE; HIGH; PRIORITY; SEND; LOW; LOSS; CHANNEL; STORAGE; RECEIVE; INTERLEAVED; SIGNAL; LOW; PRIORITY; SEGMENT; RECEIVE; LOSS; CHANNEL

Index Terms/Additional Words: MOTION; PICTURE; EXPERT; GROUP; ASYNCHRONOUS; TRANSFER; MODE

Derwent Class: W01; W02

International Patent Class (Main): H04L-012/64; H04N-007/12; H04N-007/24

International Patent Class (Additional): H04L-012/28; H04L-012/56;

H04N-007/00

File Segment: EPI

3/5/61 (Item 37 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010563527 \*\*Image available\*\*

WPI Acc No: 1996-060480/199607

XPIX Acc No: N96-050448

Displaying embedded digital audio data such as digital audio signal embedded in digital video signal - by reading digital audio data continuously from buffer memory at video sample rate and input to existing video waveform display circuit which generates digital audio waveform display

Patent Assignee: TEKTRONIX INC (TEKT )

Inventor: ELKIND B; HOFFMANN G A; HOFFMAN G A

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2291574	A	19960124	GB 9514266	A	19950713	199607 B
DE 19525790	A1	19960125	DE 1025790	A	19950714	199609
US 5485199	A	19960116	US 94277054	A	19940719	199609
JP 8063879	A	19960308	JP 95201566	A	19950714	199620
GB 2291574	B	19980225	GB 9514266	A	19950713	199811

Priority Applications (No Type Date): US 94277054 A 19940719

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2291574	A		14	G01R-013/20	
DE 19525790	A1		5	H04N-005/445	
US 5485199	A		5	H04N-017/04	
JP 8063879	A		5	G11B-020/10	
GB 2291574	B			G01R-013/20	

Abstract (Basic): GB 2291574 A

The digital audio waveform display is presented on a digital video waveform display instrument using a video waveform display circuit. A decoder (14) extracts embedded digital audio data from a digital video signal, which is stored in a buffer memory (16). N digital audio data words, corresp. to N samples of video data representing a video line for display are read from the buffer memory at a video sample rate and input to the video waveform display circuit.

The video waveform display circuit includes a DA converter (22) operating at the video sample rate and an analog video reconstruction filter (24) which provides amplitude values for a swept display device (30).

ADVANTAGE - Provides digital audio waveform display on a video waveform display instrument using video display circuit of instrument by reading in audio data from input video signal into buffer memory intermittently as received.

Dwg.1/1

Title Terms: DISPLAY; EMBED; DIGITAL; AUDIO; DATA; DIGITAL; AUDIO; SIGNAL; EMBED; DIGITAL; VIDEO; SIGNAL; READ; DIGITAL; AUDIO; DATA; CONTINUOUS; BUFFER; MEMORY; VIDEO; SAMPLE; RATE; INPUT; EXIST; VIDEO; WAVEFORM; DISPLAY; CIRCUIT; GENERATE; DIGITAL; AUDIO; WAVEFORM; DISPLAY

Derwent Class: S01; W03

International Patent Class (Main): G01R-013/20; G11B-020/10; H04N-005/445; H04N-017/04

International Patent Class (Additional): H04L-012/26; H04N-007/04; H04N-017/00; H04N-017/02

File Segment: EPI

3/5/62 (Item 38 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010554724 \*\*Image available\*\*

WPI Acc No: 1996-051677/199606

XRPX Acc No: N96-043316

User-programmable entertainment communication system for providing compressed digital audio / video signals - provides entertainment signals according to either direct requests or specified parameters from user and transmits these signals to be decompressed and played by appts. in user home

Patent Assignee: AT & T CORP (AMTT ); AMERICAN TELEPHONE & TELEGRAPH CO (AMTT )

Inventor: STORY G A

Number of Countries: 007 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 690627	A1	19960103	EP 95304313	A	19950620	199606 B
CA 2149464	A	19951229	CA 2149464	A	19950516	199616
JP 8056206	A	19960227	JP 95161327	A	19950628	199618
US 5541638	A	19960730	US 94267681	A	19940628	199636
EP 690627	B1	19991208	EP 95304313	A	19950620	200002
DE 69513735	E	20000113	DE 613735	A	19950620	200010
			EP 95304313	A	19950620	
CA 2149464	C	20000201	CA 2149464	A	19950516	200026
MX 191786	B	19990419	MX 952774	A	19950623	200055

Priority Applications (No Type Date): US 94267681 A 19940628

Cited Patents: 01Jnl.Ref; US 4920432; US 5119188; US 5133079; WO 9403894

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 690627 A1 E 12 H04N-007/173

Designated States (Regional): DE FR GB

CA 2149464 A H04N-007/173

JP 8056206 A 12 H04H-001/08

US 5541638 A 10 H04N-007/173

EP 690627 B1 E H04N-007/173

Designated States (Regional): DE FR GB  
DE 69513735 E H04N-007/173 Based on patent EP 690627  
CA 2149464 C E H04N-007/173  
MX 191786 B H04N-007/173

Abstract (Basic): EP 690627 A

The system provides an entertainment signal including a sequence of selected discrete expressive works in compressed digital signal form. A user selection interface (150) receives a user preference signal comprising a sequence of user preference items. Each user preference item has information corresp. to one or more of the chosen discrete expressive works.

A decoder connected to a communication network (170) which establishes point-to-point communications, and to a **video display**, such **as** a television (120), **receives** and decompresses (110) the signal. A data store (180) contains data for several discrete expressive works and is connected to the network. A program processor is connected to the user selection interface and the data store. The processor commands the store to provide the entertainment signal, conforming to the user preference signal, to the decoder.

ADVANTAGE - Consumer not limited to his personal collection of audio or video recordings. Possible to make general, non-specific requests e.g. for 'classical music' as opposed to naming particular piece.

Dwg.1/3

Title Terms: USER; PROGRAM; ENTERTAINMENT; COMMUNICATE; SYSTEM; COMPRESS;  
DIGITAL; AUDIO; VIDEO; SIGNAL; ENTERTAINMENT; SIGNAL; ACCORD; DIRECT;  
REQUEST; SPECIFIED; PARAMETER; USER; TRANSMIT; SIGNAL; DECOMPRESS; PLAY;  
APPARATUS; USER; HOME

Derwent Class: W02; W03

International Patent Class (Main): H04H-001/08; H04N-007/173

File Segment: EPI

5/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04205653 \*\*Image available\*\*  
NATURAL PICTURE DISPLAY SYSTEM

PUB. NO.: 05-197353 [JP 5197353 A]  
PUBLISHED: August 06, 1993 (19930806)  
INVENTOR(s): MIZOGUCHI MICHIKO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-007941 [JP 927941]  
FILED: January 20, 1992 (19920120)  
INTL CLASS: [5] G09G-005/00; G09G-005/04  
JAPIO CLASS: 44.9 (COMMUNICATION -- Other)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: P, Section No. 1645, Vol. 17, No. 621, Pg. 114,  
November 16, 1993 (19931116)

#### ABSTRACT

PURPOSE: To display encoded picture data in real time.

CONSTITUTION: In the natural picture **display** system where a **video** signal is **displayed** in **real time**, a decoding and converting means 5 which converts taken-out luminance signal and color difference signals to three red, green, and blue primary color signals after taking out the luminance signal and color difference signals by **decoding** of inputted encoded picture **data** and a selecting means 4 which selects and sends the output signal of a video signal input part 2 or that of the decoding and converting means 5 to a display control part 3 in accordance with an applied select control signal are added, and encoded picture data is displayed in real time also when the select control signal indicates selection of the decoding and converting means 5.

5/5/17 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010662926 \*\*Image available\*\*  
WPI Acc No: 1996-159880/199616  
XRPX Acc No: N96-133982

**Video compression process monitoring method - compresses and consecutively decompresses input video data stream with compression engine, providing companded video data in form of bitmap, and displays companded video data on monitor**

Patent Assignee: INTEL CORP (ITLC )  
Inventor: BALDES G C; ECHOLS B; KASAI A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5499050	A	19960312	US 93147678	A	19931101	199616 B

Priority Applications (No Type Date): US 93147678 A 19931101

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5499050	A	5	H04N-007/12	

Abstract (Basic): US 5499050 A

The video processing method comprises the steps of providing uncompressed video data corresponding to a video stream, compressing the uncompressed video **data** with a compression engine, and **decompressing** the compressed **video data** with the compression engine to generate companded video data used in compressing the uncompressed video data.

The companded video data are stored as one or more bitmaps in a memory device, and the bitmaps are accessed in the memory device with a host processor. The companded video data are displayed on a display monitor.

USE/ADVANTAGE - Provides inexpensive and accurate **real - time** monitoring of compression processing. **Displays video** data for every frame compressed. Represents results of compression processing.

Dwg.1/1

Title Terms: VIDEO; COMPRESS; PROCESS; MONITOR; METHOD; COMPRESS; CONSECUTIVE; INPUT; VIDEO; DATA; STREAM; COMPRESS; ENGINE; COMPANDER; VIDEO; DATA; FORM; DISPLAY; COMPANDER; VIDEO; DATA; MONITOR

Derwent Class: W02; W04

International Patent Class (Main): H04N-007/12

International Patent Class (Additional): H04N-017/00

File Segment: EPI

5/5/18 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010582553 \*\*Image available\*\*

WPI Acc No: 1996-079506/199609

XRPX Acc No: N96-066148

Decompression **system** for video data streams **providing continuous data output - achieves simultaneous decompression in several circuits, each circuit having several frames of decompressed video data available for immediate display before decompressed video data are actually required**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )

Inventor: ADAMS C

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 695094	A2	19960131	EP 95305118	A	19950721	199609 B
US 5495291	A	19960227	US 94278761	A	19940722	199614
JP 8065687	A	19960308	JP 95167312	A	19950703	199620
EP 695094	A3	19970618	EP 95305118	A	19950721	199737
EP 695094	B1	19990623	EP 95305118	A	19950721	199929
DE 69510414	E	19990729	DE 610414	A	19950721	199936
			EP 95305118	A	19950721	

Priority Applications (No Type Date): US 94278761 A 19940722

Cited Patents: 1.Jnl.Ref; EP 590974; AUS 5146325; AWO 9311617; AWO 9403851

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 695094	A2	E	9	H04N-007/26	
Designated States (Regional): DE FR GB					
US 5495291	A		8	H04N-007/26	
JP 8065687	A		9	H04N-007/32	
EP 695094	B1	E		H04N-007/26	
Designated States (Regional): DE FR GB					
DE 69510414	E			H04N-007/26	Based on patent EP 695094
EP 695094	A3			H04N-007/26	

Abstract (Basic): EP 695094 A

The system includes an input switch (105) coupled to several compressed video data input lines. The switch is capable of selecting input lines and controls the video data flow rate of the selected input lines. Several decompression modules (120) coupled to the input switch **decompress compressed video data** received from the input switch and store **decompressed video data**.

An output switch (115) coupled to the decompression modules couples only one of the decompression modules to an output at any time. Finally, a controller (110) coupled to the input switch, the decompression modules and the output switch selects which **decompression** module will receive **video data** at a first predefined rate. The **decompression** module receiving **video data** at the first

predefined rate is also coupled to the output bus by the output switch.

USE/ADVANTAGE - For **real - time display** system where different **video** programs must be **displayed** consecutively without pause. E.g. for advertisement insertion and video editing. Can accept multiple compressed video data streams.

Dwg.3/4

Title Terms: DECOMPRESS; SYSTEM; VIDEO; DATA; STREAM; CONTINUOUS; DATA; OUTPUT; ACHIEVE; SIMULTANEOUS; DECOMPRESS; CIRCUIT; CIRCUIT; FRAME; DECOMPRESS; VIDEO; DATA; AVAILABLE; IMMEDIATE; DISPLAY; DECOMPRESS; VIDEO; DATA; REQUIRE

Derwent Class: W02; W04

International Patent Class (Main): H04N-007/26; H04N-007/32

International Patent Class (Additional): H03M-007/30; H04N-005/92

File Segment: EPI

5/5/23 (Item 18 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009887883 \*\*Image available\*\*

WPI Acc No: 1994-167798/199420

Related WPI Acc No: 1992-208544; 1992-208545; 1992-276818; 1992-390308

XRFX Acc No: N94-132036

**Broadcasting system for music with accompanying words - stores, broadcasts, receives and displays accompanying words of music being simultaneously broadcast, including real - time indication of word or phrase being sung**

Patent Assignee: MANKOVITZ R J (MANK-I); YUEN H C (YUEN-I)

Inventor: MANKOVITZ R J; YUEN H C; YUN H C

Number of Countries: 046 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9410761	A1	19940511	WO 93US10037	A	19931020	199420 B
TW 225070	A	19940611	TW 93109339	A	19931108	199427
AU 9454088	A	19940524	WO 93US10037	A	19931020	199434
			AU 9454088	A	19931020	
US 5408686	A	19950418	US 91657477	A	19910219	199521
			US 91737211	A	19910729	
			US 92969013	A	19921030	
EP 673568	A1	19950927	EP 93924378	A	19931020	199543
			WO 93US10037	A	19931020	
US 5526284	A	19960611	US 91657477	A	19910219	199629
			US 91737211	A	19910729	
			US 92969013	A	19921030	
			US 95407192	A	19950320	
JP 8503110	W	19960402	WO 93US10037	A	19931020	199645
			JP 94511149	A	19931020	
US 5561849	A	19961001	US 91657477	A	19910219	199645
			US 91737211	A	19910729	
			US 92969013	A	19921030	
			US 95424065	A	19950418	
CN 1091567	A	19940831	CN 93120738	A	19931030	199715
US 37131	E	20010410	US 91657477	A	19910219	200122
			US 91737211	A	19910729	
			US 92969013	A	19921030	
			US 97844061	A	19970418	

Priority Applications (No Type Date): US 92969013 A 19921030; US 92969012 A 19921030; US 91657477 A 19910219; US 91737211 A 19910729; US 95407192 A 19950320; US 95424065 A 19950418; US 97844061 A 19970418

Cited Patents: US 4379947; US 4534054; US 5063610; US 5119503

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9410761 A1 E 5 H04B-007/00

Designated States (National): AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL

	OA	PT	SE			
TW 225070	A			H04H-005/00		
AU 9454088	A			H04B-007/00		Based on patent WO 9410761
US 5408686	A	29		H04B-001/00		Div ex application US 91657477
						CIP of application US 91737211
						Div ex patent US 5134719
						CIP of patent US 5161251
EP 673568	A1	E	5	H04B-007/00		Based on patent WO 9410761
				Designated States (Regional):	BE	DE DK FR GB IT NL
US 5526284	A		28	H04B-001/00		Div ex application US 91657477
						CIP of application US 91737211
						Div ex application US 92969013
						Div ex patent US 5134719
						CIP of patent US 5161251
						Div ex patent US 5408686
JP 8503110	W		69	H04H-005/00		Based on patent WO 9410761
US 5561849	A		28	H04B-001/16		Div ex application US 91657477
						CIP of application US 91737211
						Div ex application US 92969013
						Div ex patent US 5134719
						CIP of patent US 5161251
						Div ex patent US 5408686
CN 1091567	A			H04H-005/00		
US 37131	E			H04B-001/00		Div ex application US 91657477
						CIP of application US 91737211
						Div ex patent US 5134719
						CIP of patent US 5161251
						Reissue of patent US 5408686

Abstract (Basic): WO 9410761 A

The audio broadcasting system includes an audio music source (150) that provides a data output and an analogue audio signal output. A computer (158) receives the data and generates lyric text data and lyric timing commands. A sub carrier generator (162) generates a subcarrier signal for carrying the lyric text and timing command.

An FM transmitter (152) broadcasts a composite signal that combines (164) the analogue audio signal with the subcarrier signal. The subcarrier signal is transmitted in a burst before the analogue signal of the associated music selection is broadcast. A lyric display unit (166) receives the composite signal, separates and decodes the subcarrier signal and displays and highlights lyrics according to the lyric text **data** and lyric timing commands **decoded** from the subcarrier signal.

USE/ADVANTAGE - Broadcasting music and lyrics simultaneously to provide real-time indication of when each word or phase of lyrics is being sung in accompanying music broadcast. Enables listener to identify broadcast music selections rapidly and accurately.

Dwg.1/16

Title Terms: BROADCAST; SYSTEM; MUSIC; ACCOMPANIED; WORD; STORAGE;

BROADCAST; RECEIVE; DISPLAY; ACCOMPANIED; WORD; MUSIC; SIMULTANEOUS;

BROADCAST; REAL-TIME; INDICATE; WORD; PHRASE

Derwent Class: P85; P86; W02

International Patent Class (Main): H04B-001/00; H04B-001/16; H04B-007/00; H04H-005/00

International Patent Class (Additional): G06F-013/10; G09G-005/00;

G10K-015/04; H04B-001/04; H04B-001/06

File Segment: EPI; EngPI



File 348:EUROPEAN PATENTS 1978-2003/Nov W03

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File 349:PCT FULLTEXT 1979-2002/UB=20031120,UT=20031113

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Set	Items	Description
S1	83818	(RENDER? OR DISPLAY? OR LISTEN??? OR HEAR??? OR VIEW??? OR WATCH??? OR SEE???) (5N) (STREAM??? OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S2	45086	(DECOD??? OR DECOMPRESS?) (5N) (STREAM??? OR DATA OR INFORMATION OR CONTENT OR VIDEO OR MOVIE? ? OR FILM? ? OR AUDIO OR MUSIC OR SOUND OR MEDIA OR MULTIMEDIA OR ANIMATION)
S3	324	S1(5N) (ON(1W)FLY OR ADAPTIV? OR AS(5W) (RECEIVED OR RECEIVES OR RECEIVING))
S4	1290	S1(5N) (REALTIME OR REAL()TIME)
S5	30	S3/TI,AB,CM
S6	71	S3 AND IC=(G06F OR H04H)
S7	66	S6 NOT S5
S8	102	S2(S)S4
S9	23	S8/TI,AB,CM
S10	20	S8 AND IC=(G06F OR H04H)
S11	36	S9:S10
S12	32	S11 NOT (S5 OR S7)

01383258

**Adaptive gain and filtering circuit for a sound reproduction system**  
**Adaptive Verstärkung und Filterschaltung für Schallwiedergabesystem**  
**Gain adaptatif et filtrage pour système de reproduction de son**

PATENT ASSIGNEE:

K/S HIMPP, (2223940), Ny Vestergardsvej 25, 3500 Vaerloese, (DK),  
(Applicant designated States: all)

INVENTOR:

Engebretson, Maynard A., 818 South Euclid Avenue, St Louis, MO 63110,  
(US)

O'Connell, Michael P., 818 South Euclid Avenue, St Louis, MO 63110, (US)

LEGAL REPRESENTATIVE:

Freeman, Jacqueline Carol (72181), W.P. THOMPSON & CO. Celcon House  
289-293 High Holborn, London WC1V 7HU, (GB)

PATENT (CC, No, Kind, Date): EP 1175125 A2 020123 (Basic)  
EP 1175125 A3 021106

APPLICATION (CC, No, Date): EP 2001121068 940406;

PRIORITY (CC, No, Date): US 44246 930407

DESIGNATED STATES: DE; FR; GB; IT; NL; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 693249 (EP 94914764)

INTERNATIONAL PATENT CLASS: H04R-025/00

ABSTRACT EP 1175125 A2

Adaptive compressive gain and level dependent spectral shaping circuitry for a hearing aid include a microphone to produce an input signal and a plurality of channels connected to a common circuit output (102). Each channel has a present frequency response. Each channel includes a filter (F1, F2, F3, F4) with a preset frequency response to receive the input signal (12) and to produce a filtered signal, a channel amplifier to amplify the filtered signal to produce a channel output signal, a threshold register (34) to establish a channel threshold level, and a gain circuit (24). The gain circuit increases the gain of the channel amplifier when the channel output signal falls below the channel threshold level and decreases the gain of the channel amplifier when the channel output signal rises above the channel threshold level. A transducer produces sound in response to the signal passed by the common circuit output.

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020123 A2 Published application without search report

Examination: 020123 A2 Date of request for examination: 20010903

Change: 021106 A2 International Patent Classification changed:  
20020916

Search Report: 021106 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200204	791
SPEC A	(English)	200204	11446
Total word count - document A			12237
Total word count - document B			0
Total word count - documents A + B			12237

...CLAIMS filter parameter.

3. The adaptive filtering circuit of claims 1 or 2 further comprising:  
a hearing aid microphone for producing the input signal; and  
a hearing aid transducer for producing a **sound** as a function of the **adaptively** filtered output signal or of the filtered output signal.
4. The adaptive filtering circuit of claims 1, 2 or 3 further comprising:

means responsive to...

5/5,K/30 (Item 18 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00156314

**SIGNAL PROCESSING APPARATUS AND METHODS**  
**DISPOSITIF ET PROCEDES DE TRAITEMENT DE SIGNAUX**

Patent Applicant/Assignee:

HARVEY John C,

Inventor(s):

HARVEY John C,

CUDDIHY James W,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8902682 A1 19890323

Application: WO 88US3000 19880908 (PCT/WO US8803000)

Priority Application: US 8796 19870911

Designated States: AT AU BE BJ BR CF CG CH CM DE DK FI FR GA GB GB HU IT JP  
KP LK LU MC MG ML MR MW NL NO RO SE SN SU TD TG

Main International Patent Class: H04K-007/00

International Patent Class: H04N-07:16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 161690

**English Abstract**

A unified system of programming communication. The system encompasses prior art communications (such as, for example, television, radio, electronically transmitted print, and computer communications) and new user specific mass media. Within the unified system, computer system means (205) and methods provide capacity for generating relevant user specific information simultaneously at each station (26) of a plurality of subscriber stations (26).

**French Abstract**

Systeme unifie de communication a programmation regroupant les communications de l'art anterieur (telles que par exemple la television, la radio, l'impression transmise electroniquement, et les communications par ordinateur) ainsi que les nouveaux mass medias specifiques aux utilisateurs. Dans le systeme unifie, des moyens (205) et procedes mettant en oeuvre des systemes d'ordinateurs ont la capacite de produire des informations specifiques a un utilisateur particulier, simultanement a chaque poste (26) d'une pluralite de postes d'abonnes (26).

Fulltext Availability:

Claims

**Claim**

... 5 to controller, 39, Using forward error correction techniques, well known in the art, and employing particular correcting information, controller, 39, automatically checks said information, as it is received, and corrects it as necessary then discards said particular correcting information retaining only the corrected information. Using conversion protocol techniques, well known in the...

12/5,K/29 (Item 21 file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00281819 \*\*Image available\*\*

**SYSTEM AND METHOD FOR TRANSMITTING VIDEO MATERIAL**  
**SYSTEME ET PROCEDE DE TRANSMISSION DE DONNEES VIDEO**

Patent Applicant/Assignee:

GOULD Kim V W,  
ABRAHAM Charles R,  
PORTE Michael H,  
ELLIOT Michael D,

Inventor(s):

GOULD Kim V W,  
ABRAHAM Charles R,  
PORTE Michael H,  
ELLIOT Michael D,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9429999 A1 19941222  
Application: WO 94US6629 19940610 (PCT/WO US9406629)  
Priority Application: US 9377685 19930616

Designated States: AU CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: H04M-011/00

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 10142

English Abstract

A "video fax" system (10) electronically delivers a non-real time, full-motion, sub-broadcast quality facsimile of relatively short segments of video material from an originating location to a receiving location in a short period of time, utilizing selected widely available commercial telephone switched networks (15). At the originating location, analog source material is digitized, compressed, prepared for transmission and stored temporarily. Digital source material is handled by bypassing the digitization step and part of the compression step, and performing the necessary file conversion. The sending location dials up the receiving location, and a connection is established. The digital file is transmitted over the network (15). When finished, the connection is terminated. At the receiving location, the material is received, decompressed and converted back to either analog form or digital form, depending on the recipient's preference.

French Abstract

Un systeme de "telecopieur video" (10) transmet electroniquement en temps non reel un fac-simile de qualite inferieure a la qualite de diffusion et a une vitesse d'images normale de segments relativement courts de donnees video d'un site de depart a un site de reception, en un court laps de temps, au moyen de reseaux commutes telephoniques commerciaux (15) choisis et facilement accessibles. Au site de depart, les donnees de source analogique sont numerisees, comprimees, preparees pour la transmission et mises en memoire temporairement. Les donnees de source numerique sont traitees en contournant l'etape de numerisation et une partie de l'etape de compression et en realisant la conversion de fichier necessaire. Le site de depart fait le numero du site de reception et une connexion est etablie. Le fichier numerise est transmis sur le reseau (15). Apres achevement de la transmission, la connexion est interrompue. Au site de reception, les donnees sont recues, decomprimees et converties a nouveau soit sous forme analogique, soit sous forme numerique, selon la preference du destinataire.

Fulltext Availability:

Claims

Claim

... 3 The method of claim 2, further comprising:

previous to transmitting, altering the format of the video file.

4 The method of claim 1 wherein **displaying the video** segment comprises:  
applying **real - time video decompression** to the once compressed **video stream** ;  
converting the resulting video stream to an analog video signal; and  
displaying the analog video signal.

5 The method of claim 1 or 2, further...

12/5,K/30 (Item 22 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00276457 \*\*Image available\*\*

**DISPLAYING A SUBSAMPLED VIDEO IMAGE ON A COMPUTER DISPLAY**

**VISUALISATION D'UNE IMAGE VIDEO SOUS-ECHANTILLONNEE SUR UN ECRAN D'ORDINATEUR**

Patent Applicant/Assignee:

DATA TRANSLATON INC,

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NOWOKUNSKI Brian M,

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Main International Patent Class: **G06F-015/62**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6319

English Abstract

Apparatus for displaying a reduced-size image in a window of the display (18) of a host computer (12), the reduced-size image based upon subsampled digital image data. The apparatus includes a host computer (12) and a peripheral controller (10). The peripheral controller (10) includes a subsampler (80) that receives digital source image data and outputs subsampled image data, and window display means (42). The window display means (42) receives a directive from the host computer (12) indicating a window location on the host's display (18), and the subsampled image data. The window display means (42) autonomously (independently of the host CPU (28)) writes the subsampled data through the host's system bus (46) into the display memory (44) at addresses corresponding to the specified window. The apparatus allows video to be displayed on the display screen (18) while avoiding intensive involvement or supervision by the host CPU (28) during display of the video image data.

French Abstract

L'invention concerne un appareil pour visualiser des images de taille reduite dans une fenetre d'un ecran (18) d'un ordinateur hote (12), l'image de taille reduite etant basee sur des donnees d'image numeriques sous-echantillonnees. L'appareil comprend un ordinateur hote (12) et une unite de controle peripherique (10). L'unite de controle peripherique (10) comprend un sous-echantillonneur (80) qui recoit des donnees d'images d'une source numerique et produit des donnees d'image sous-echantillonnees, et un moyen de fenetre de visualisation (42). Le

moyen de fenetre de visualisation (42) recoit une direction depuis l'ordinateur hote (12) indiquant un emplacement de fenetre sur l'ecran hote (18) et les donnees d'image sous-echantillonnees. Le moyen de visualisation a fenetre (42) ecrit d'une maniere autonome (independamment de l'unite centrale de traitement de l'hote (28)) les donnees sous-echantillonnees par le bus du systeme hote (46) dans la memoire d'affichage (44) aux adresses correspondant a la fenetre specifiee. L'appareil permet une visualisation video sur l'ecran (18) tout en evitant des interventions ou une surveillance intenses par l'unite centrale de traitement (28) durant la visualisation des donnees d'image video.

Main International Patent Class: **G06F-015/62**

Fulltext Availability:

Claims

Claim

... s display, the target display area specified by the host processor, by writing into the display memory; wherein as part of displaying, the peripheral processor **decodes** the digital image **data** from one encoding to the predetermined protocol required by the display ; such that active **real - time video** is **displayed** on the host's display with intervention required from the host processor less often than once per frame.

24 The apparatus of claim 23 wherein...

12/5,K/31 (Item 23 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00241183 \*\*Image available\*\*

**PERSONAL COMPUTER APPARATUS FOR DIGITAL VIDEO AND AUDIO MANIPULATION**  
**APPAREIL POUR ORDINATEUR PERSONNEL PERMETTANT D'EFFECTUER LA MANIPULATION**  
**NUMERIQUE DES SIGNAUX AUDIO ET VIDEO**

Patent Applicant/Assignee:

SUPERMAC TECHNOLOGY,

Inventor(s):

GILBERT Douglas J,

Patent and Priority Information (Country, Number, Date):

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Publication Language: English

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Detailed Description

Claims

Fulltext Word Count: 6829

English Abstract

An apparatus for the manipulation and display of digital video and audio includes a plug-in board for a personal computer and provides real-time digital video and audio digitization. The video is digitized by a video digitizer (16) and converted to RGB, compressed using a hardware compression processor (17), and written to the computer system disk, capturing the video in real-time. Concurrent to the video capture, an audio data convertor (19) digitizes two channels of audio (20). This data is buffered in RAM memory on the board, where it can then be transferred to the computer system disk. The board also supports the playback of video and audio at real-time rates. Compressed video data is transferred from the computer system disk to the board, where it is decompressed by the compression processor (17).

#### French Abstract

Appareil utilise pour effectuer la manipulation et l'affichage de signaux numeriques video et audio, comprenant une carte enfichable associe a un ordinateur personnel et assurant la numerisation en temps reel des signaux video et audio. Le signal video est numerise par un numeriseur (16) video et transforme en RVB, puis comprime par un processeur (17) physique de compression, et enfin ecrit sur le disque du systeme informatique qui capte le signal video en temps reel. Pendant la captation du signal video, un convertisseur (19) de donnees audio numerise le signal audio sur deux voies. Les donnees sont stockees dans une memoire vive tampon sur la carte, d'ou elles peuvent etre transferees sur le disque du systeme informatique. La carte assure egalement la reproduction des signaux video et audio en temps reel. Les donnees video comprimees sont transferees du disque du systeme informatique sur la carte, ou elles sont decomprimees par le processeur (17) de compression.

Main International Patent Class: G06F-003/00

International Patent Class: G06F-03:14

Fulltext Availability:

Claims

#### Claim

... importing and exporting color video signals and for providing digital video manipulation capability, comprising:

- a) a microprocessor;
- b) a main memory;
- C) a raster@scanned video display ;
- d) means for receiving analog video signals at a real time rate;
- e) means for digitizing the analog video signals for forming a digital signal having a plurality of color components, the means for digitizing including...

...according to claim 5 further

comprising:

- a) means for compressing the digital audio is signal prior to storing it for forming a stored compressed digital audio signal;
- b) means for decompressing the stored compressed digital audio signal for forming a decompressed audio signal;
- c) means for converting the decompressed audio signal into a converted audio signal; and
- d) means for transmitting the converted audio analog signal.

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